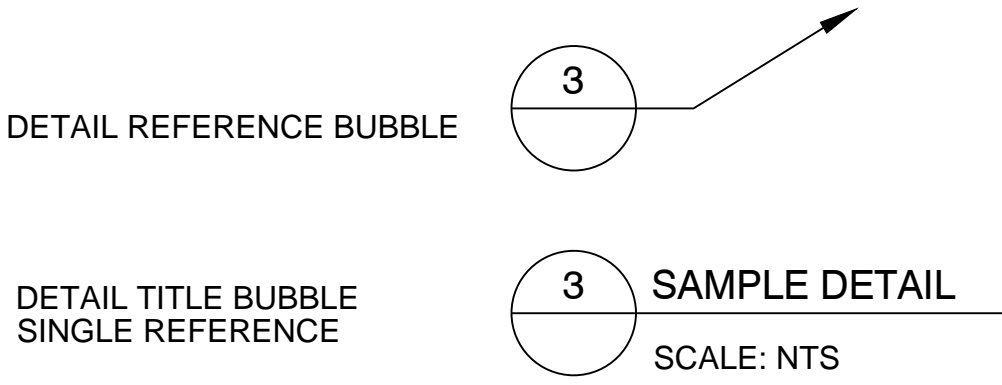
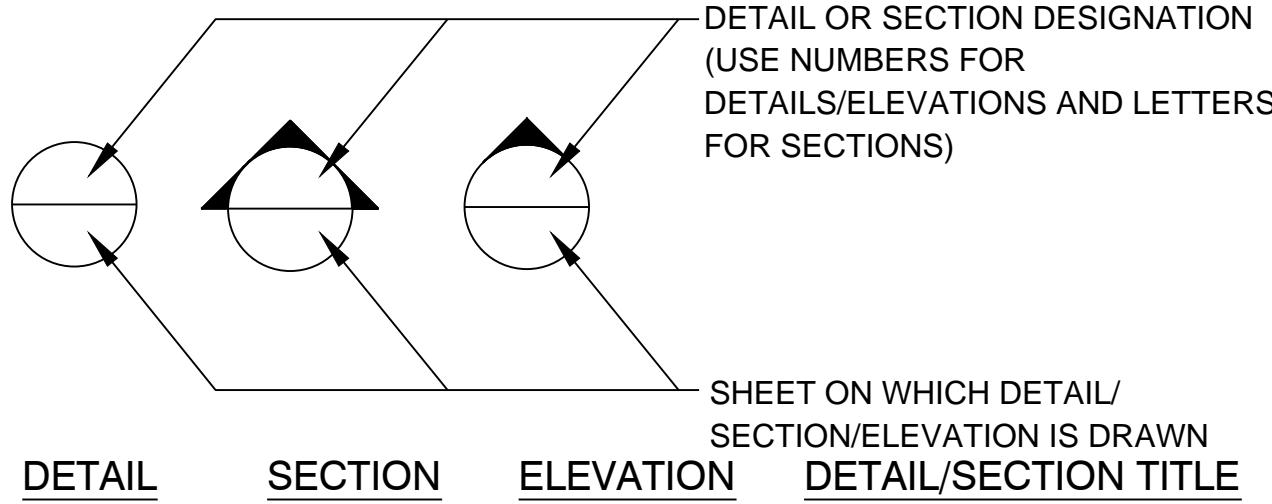


GENERAL NOTES

1. THE CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS AND ADVISE THE ENGINEER OF ANY CONFLICTS OF REPRESENTATION BETWEEN DRAWINGS AND/OR SPECIFICATIONS PRIOR TO COMMENCING WITH CONSTRUCTION.
2. THE CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY WORK UNDER THIS CONTRACT AND NOTIFY THE ENGINEER IN WRITING OF ANY DIFFERENCES BEFORE COMMENCING WITH ANY CONSTRUCTION.
3. HORIZONTAL COORDINATES ARE BASED ON FLORIDA STATE PLANE COORDINATE SYSTEM. VERTICAL ELEVATIONS ARE BASED ON NGVD 1929 DATUM.
4. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES. THE CONTRACTOR SHALL CONTACT BELLSOUTH, THE LOCAL TELEPHONE COMPANY AND COMCAST, THE LOCAL CABLE TV PROVIDER TO VERIFY THE LOCATION OF BURIED TELEPHONE AND CABLE TV UTILITIES. NONE HAVE BEEN INDICATED ON THE DRAWINGS. CALL 1-800-432-4770 BEFORE DIGGING OR TRENCHING OPERATIONS BEGIN. CONTRACTOR SHALL ALSO CONTACT KEYS ENERGY TO LOCATE SECONDARY ELECTRIC LINES.
5. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS. LOCATIONS OF NEW UTILITIES SHALL BE ADJUSTED IN A MANNER APPROVED BY THE ENGINEER TO AVOID CONFLICTS. DAMAGES TO UTILITIES RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE CLIENT.
6. ALL EXCAVATION, TRENCHING, SHEETING, SHORING AND BRACING SHALL BE INSTALLED AS REQUIRED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS, INCLUDING OSHA (29 CFR 1926).
7. ALL ITEMS INDICATED TO BE REMOVED OR DEMOLISHED SHALL BE REVIEWED WITH THE OWNER TO DETERMINE IF THE ITEM IS TO BE PROPERTY OF THE CONTRACTOR. ALL ITEMS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS, UNLESS OTHERWISE NOTED. NO SALVAGE VALUE IS EXPRESSED OR IMPLIED BY THESE CONTRACT DOCUMENTS FOR ANY ITEMS TO BE REMOVED OR DEMOLISHED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND PERSONNEL, AND SHALL PROVIDE ADEQUATE BARRIERS TO PREVENT RISK TO OTHERS FROM THE CONTRACTOR'S ACTIVITIES.
9. WHERE ACTUAL DIMENSIONS AND SIZES ARE PROVIDED IN THE DRAWINGS, THEY SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. LARGE SCALE DRAWINGS SHALL TAKE PRECEDENCE OVER SMALL SCALE DRAWINGS.
10. THE CONTRACTOR SHALL SEQUENCE HIS OPERATIONS SUCH THAT ORANGE MESH SAFETY FENCING IS PROVIDED ALONG ALL AREAS BEING TRENCHED AND NO TRENCH IS LEFT OPEN AT THE END OF THE WORK DAY.
11. NO CONNECTIONS FOR THE PURPOSE OF OBTAINING WATER SUPPLY DURING CONSTRUCTION SHALL BE MADE TO ANY FIRE HYDRANT OR BLOW-OFF STRUCTURE WITH OUT FIRST OBTAINING A CONSTRUCTION METER FROM THE FLORIDA KEYS AQUEDUCT AUTHORITY.
12. IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED.
13. IN GENERAL, EXISTING STRUCTURES AND UTILITIES ARE NOTED AS EXISTING AND/OR SHOWN IN LIGHT LINE WEIGHT. NEW CONSTRUCTION IS SHOWN IN HEAVY LINE WEIGHT.
14. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS EXPENSE, UNDER THE DIRECTION OF A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.



BUBBLE SYMBOLS

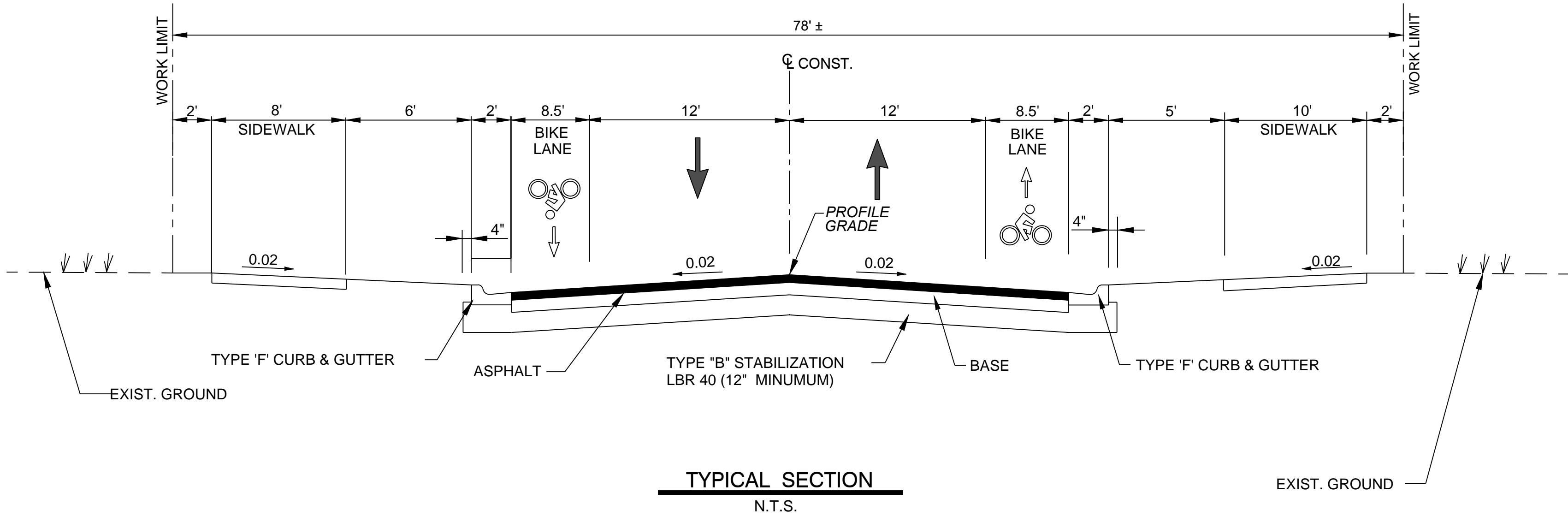
LEGEND

GENERAL

- RIGHT-OF-WAY AND/ OR PROPERTY LINE
- TL 1500 TAX LOT NUMBER
- ▲ CONTRACTOR'S SURVEY REFERENCE
- 5 KEY NOTE MARKER
- 9 (ON SITE PLAN) # OF PARKING SPACES

NEW CONSTRUCTION NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY DURING CONSTRUCTION OF NEW UTILITIES TO ANTICIPATE AND PLAN FOR CROSSINGS OF NEW AND EXISTING UTILITIES AND SUBSURFACE FEATURES. UTILITY LINES SHALL HAVE PRIORITIES AS FOLLOWS:
A. GRAVITY SANITARY SEWER LINES SHALL BE CONSTRUCTED TO GRADES AS INDICATED.
B. ANY GRAVITY UTILITY DISCOVERED TO CONFLICT WITH GRADES FOR NEW SANITARY SEWER LINES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER WITH POSSIBLE SOLUTIONS FOR HORIZONTAL AND VERTICAL ADJUSTMENT.
C. POTABLE WATER LINES, ELECTRICAL, COMMUNICATION, AND CABLE TV DISTRIBUTIONS WILL REQUIRE RELOCATION AS NECESSARY TO ACCOMMODATE NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL DETERMINE, PRIOR TO INSTALLATION, THE METHOD BY WHICH THESE LINES SHALL BE REROUTED ABOVE OR BELOW NEW SANITARY SEWER LINES. THE CONTRACTOR SHALL REFER TO THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR SEPARATION REQUIREMENTS BETWEEN INDIVIDUAL UTILITY LINES, BOTH HORIZONTALLY AND VERTICALLY, AND SPECIAL TREATMENT REQUIREMENTS. THE CONTRACTOR SHALL INCLUDE IN THE BID PRICE ANY SPECIAL TREATMENT REQUIRED FOR UTILITY INSTALLATION, INCLUDING ADJUSTMENTS OF EXISTING UTILITIES.
2. NEW SLABS SHALL BE GRADED TO POSITIVELY DRAIN WITHOUT ANY STORMWATER PONDING.
3. PROVIDE CONTRACTION JOINTS AT 12' O.C. MAX. JOINT PATTERNS IN PAVEMENTS AND SIDEWALKS SHALL BE GENERALLY SQUARE. AT CURBS PROVIDE FULL DEPTH EXPANSION JOINTS AT 100 FT. O.C. MAX, AND AT LOCATIONS WHERE STRAIGHT CURB RUNS CHAGE DIRECTIONS. AT SIDEWALKS PROVIDE WEAKENED PLANE CONTRACTION JOINTS NOT MORE THAN 5'-0" MAX. AND EXPANSION JOINTS AT 20-FT. O.C. MAX (TOOL ALL EDGES). INSTALL SELF-LEVELING SEALANT AT ALL ISOLATION/ EXPANSION JOINTS.



PAVEMENT SECTION
2" ASPHALT, TYPE SP-9.5 (2 - 1" COURSES)
12" BASE, LIMEROCK (LBR 100)

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PREPARED FOR/OWNER:

CITY OF KEY WEST, FL
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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

TRUMAN
WATERFRONT
PARK

PROJECT LOCATION/ADDRESS:

TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

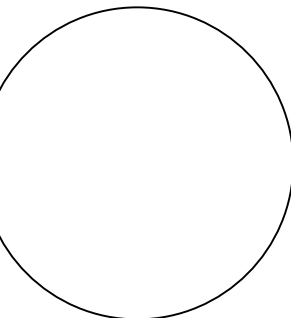
SUB-CONSULTANT INFORMATION:

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PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

Δ	09-29-15	ADDENDA No. 2
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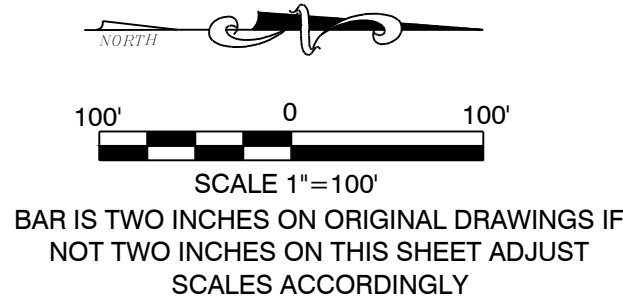
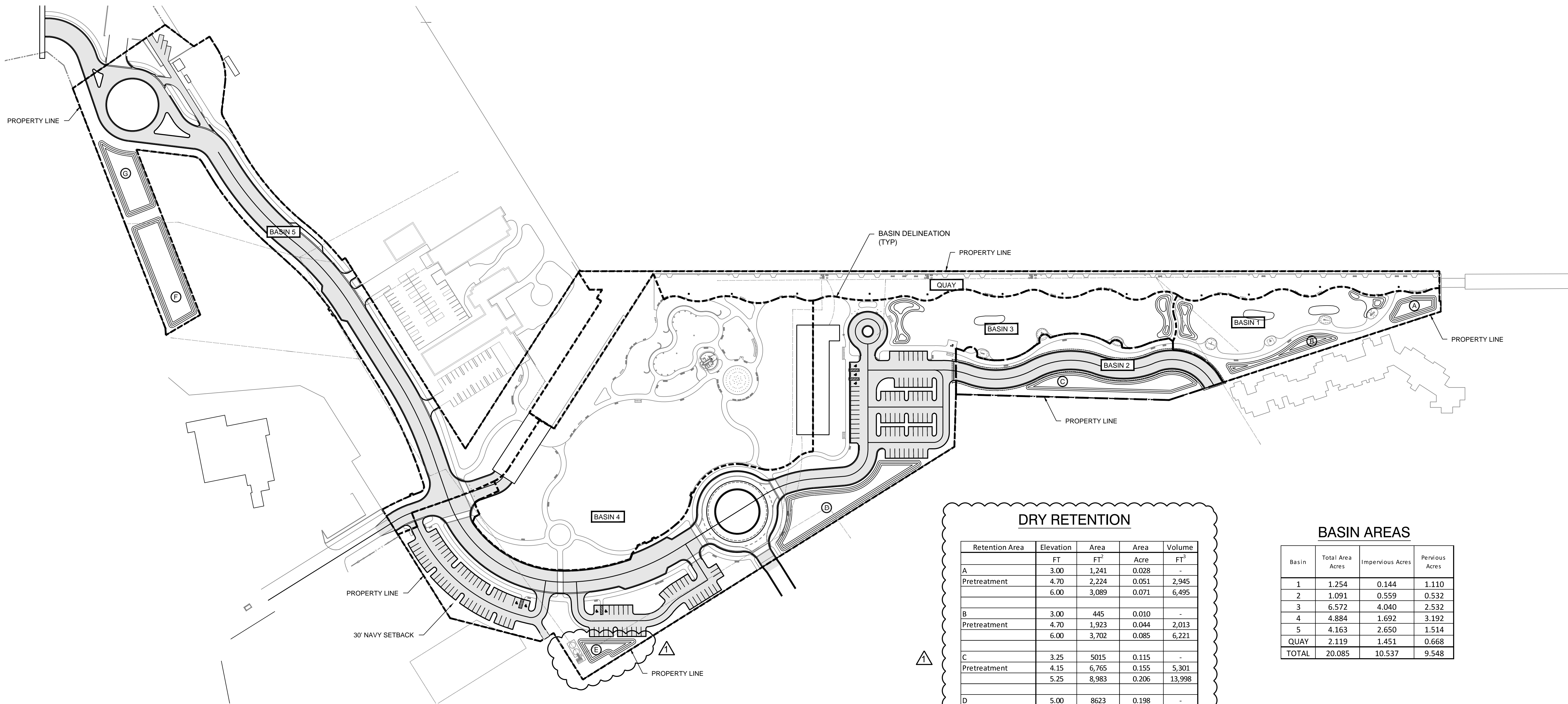
DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: N/A
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:

GENERAL
ENGINEERING
NOTES
SHEET NO.

CN-01



ENVIRONMENTAL LAND USE CONTROLS NOTE:
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DRY RETENTION				
Retention Area	Elevation	Area	Area	Volume
	FT	FT ²	Acre	FT ³
A	3.00	1,241	0.028	-
Pretreatment	4.70	2,224	0.051	2,945
	6.00	3,089	0.071	6,495
B	3.00	445	0.010	-
Pretreatment	4.70	1,923	0.044	2,013
	6.00	3,702	0.085	6,221
C	3.25	5015	0.115	-
Pretreatment	4.15	6,765	0.155	5,301
	5.25	8,983	0.206	13,998
D	5.00	8623	0.198	-
Pretreatment	6.80	12,240	0.281	18,777
	8.00	14,772	0.339	35,093
E	5.00	1057	0.024	-
Pretreatment	6.80	2,968	0.068	3,623
	8.00	3,166	0.073	6,335
F	3.00	7900	0.181	-
Pretreatment	4.70	10,337	0.237	15,501
	6.00	12,316	0.283	30,324
G	3.00	4749	0.109	-
Pretreatment	4.70	6,547	0.150	9,602
	6.00	8,053	0.185	19,203
Total	Swale Pretreatment Volume (FT3)			57,761
	Swale Total Volume (FT3)			117,668

BASIN AREAS			
Basin	Total Area Acres	Impervious Acres	Pervious Acres
1	1.254	0.144	1.110
2	1.091	0.559	0.532
3	6.572	4.040	2.532
4	4.884	1.692	3.192
5	4.163	2.650	1.514
QUAY	2.119	1.451	0.668
TOTAL	20.085	10.537	9.548

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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
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PROFESSIONAL SEAL:

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FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

	09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 100'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**DRAINAGE BASIN
MAP**

SHEET NO.
CB-01



PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P.O. BOX 1409
40 FLAGLER AVENUE
KEY WEST, FL 33041



RUMAN WATERFRONT ARK

SUB-CONSULTANT INFORMATION:

Certificate of Authorization No. 8579

PROFESSIONAL SEAL:



SUBMITTAL DESCRIPTION / MILESTONE:

REVISIONS:

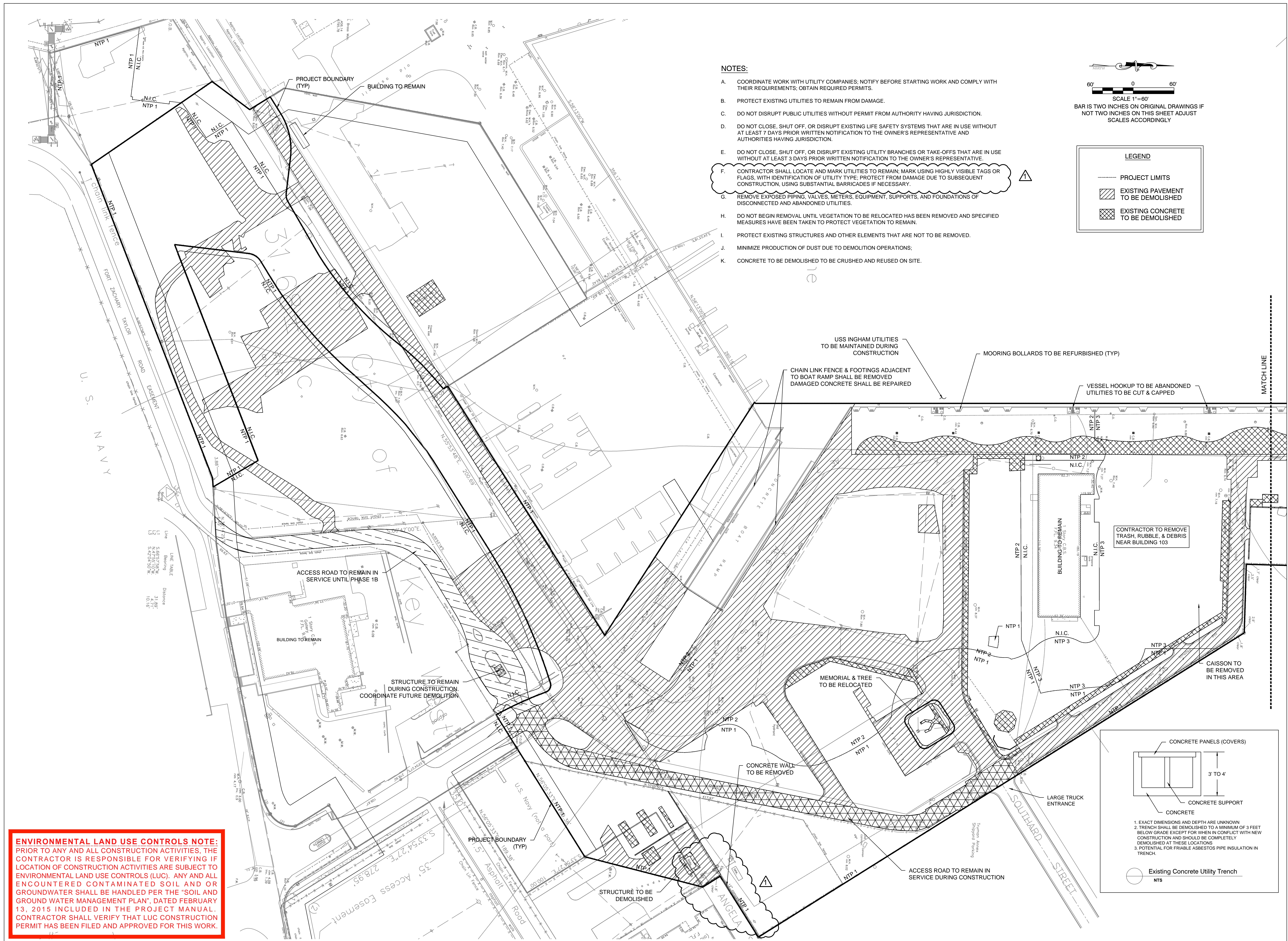
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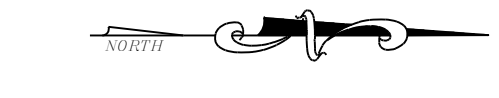
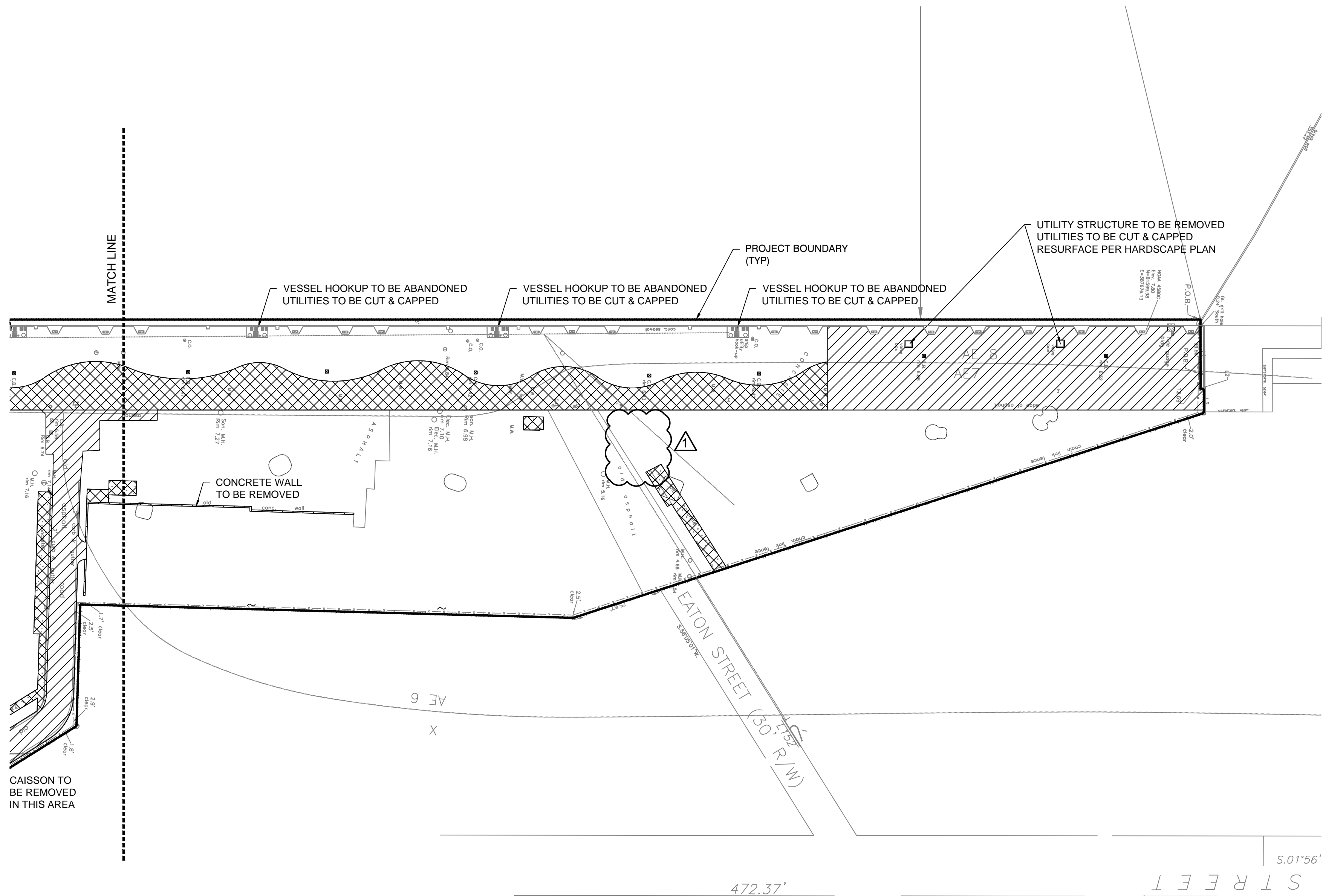
DRAWING SHEET INFORMATION

DRAWING TITLE:
SITE DEMOLITION
PLAN

SHEET NO.

CS-01





SCALE 1"=60'

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LEGEND

- PROJECT LIMITS
- EXISTING PAVEMENT TO BE DEMOLISHED
- EXISTING CONCRETE TO BE DEMOLISHED

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PROJECT NAME:

**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:

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WEST OF FORT STREET AND THE
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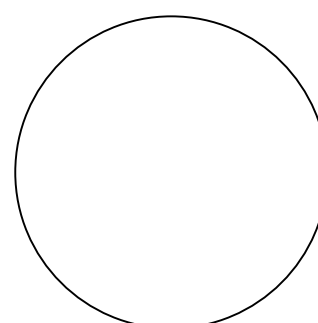
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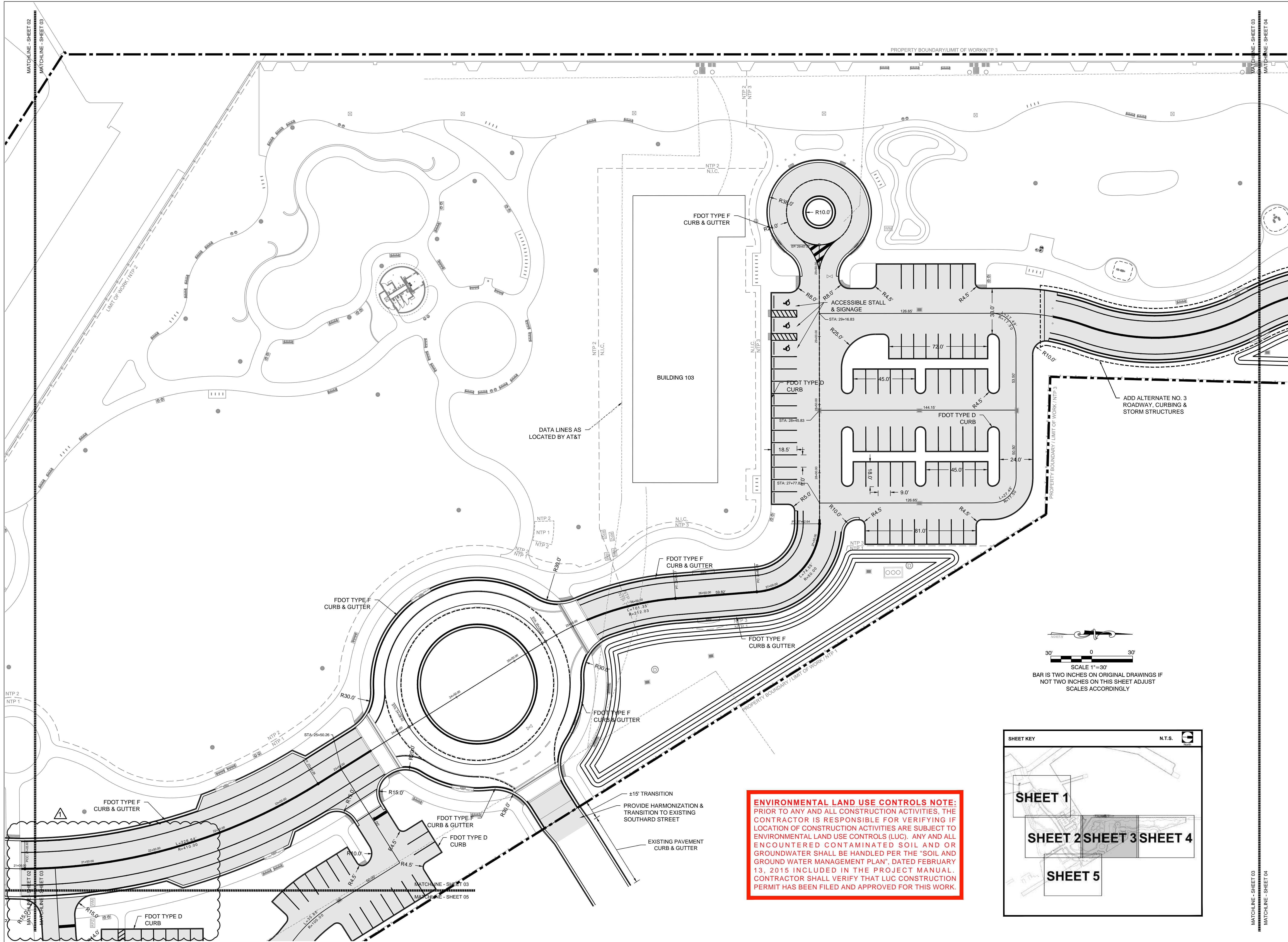
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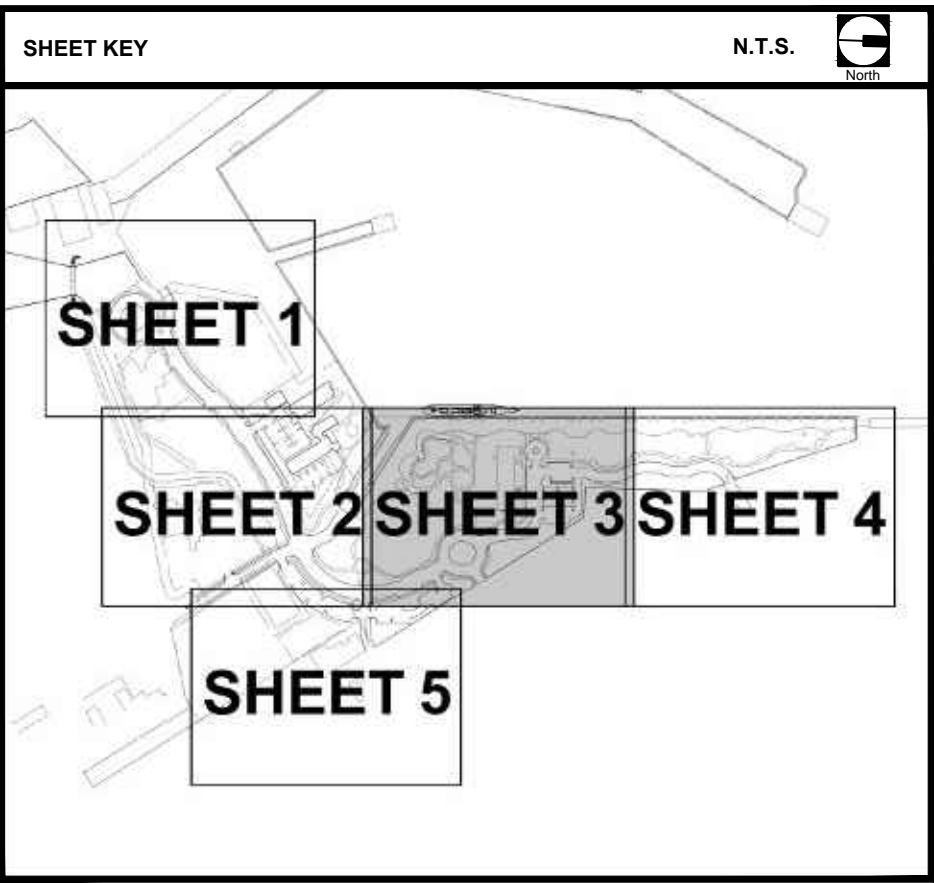
**SITE DEMOLITION
PLAN**

SHEET NO.

CS-02



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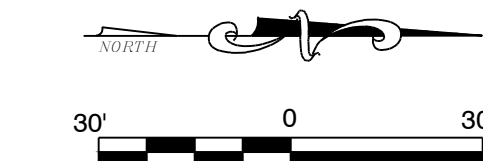
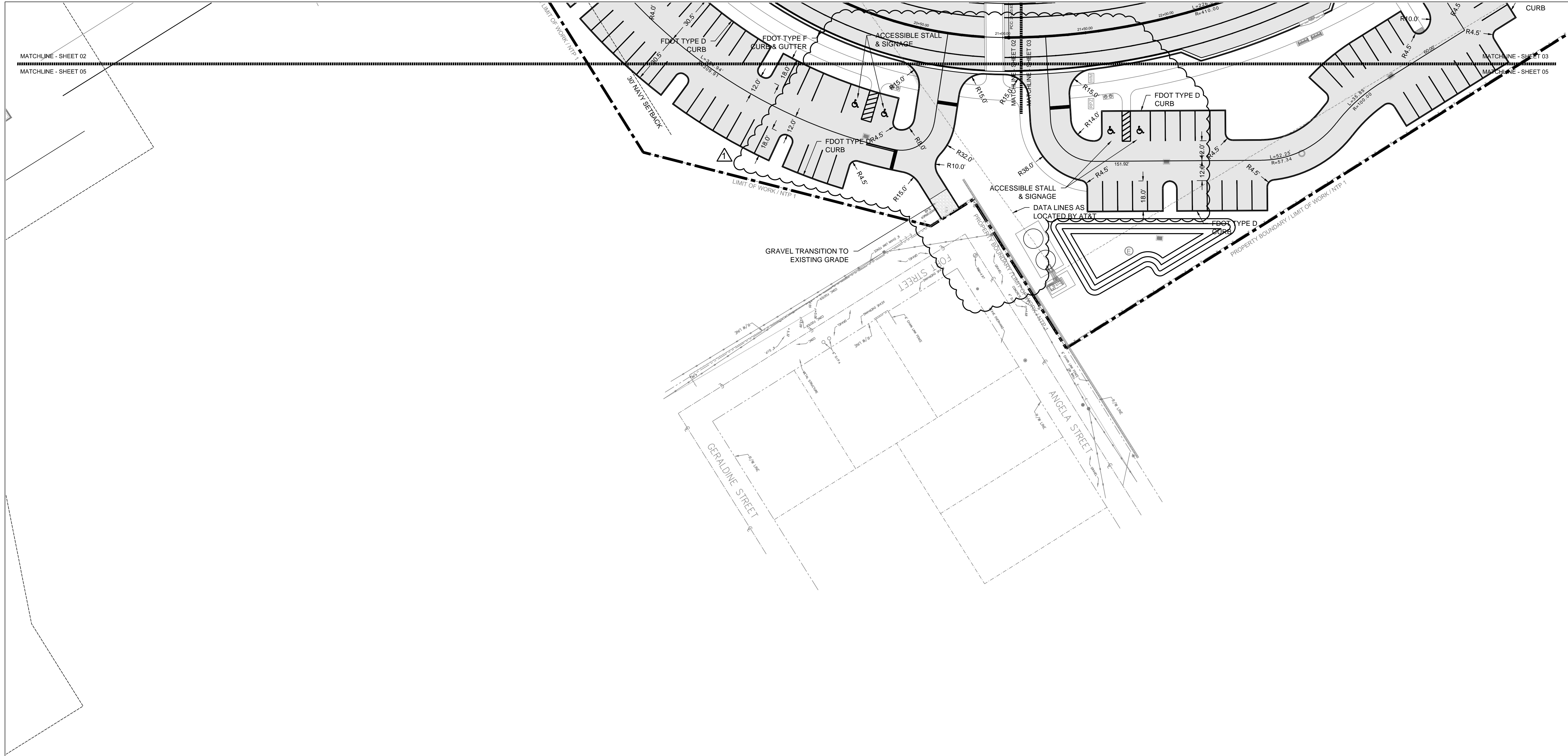
BIDDING
August 30, 2015

REVISIONS:	
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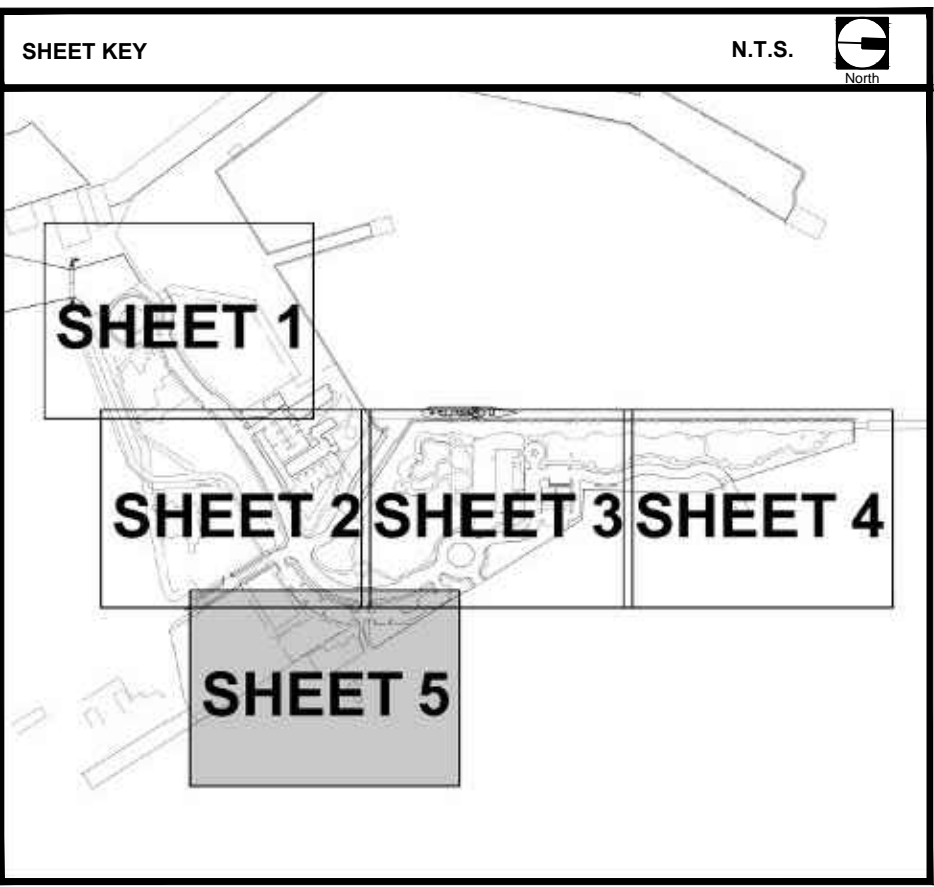
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BA PROJECT NO.:	14041
SCALE:	1" = 30'
DATE:	June 25, 2015
DRAWN BY:	BGO
CHECKED BY:	AEP

DRAWING TITLE:
SITE GEOMETRY PLAN

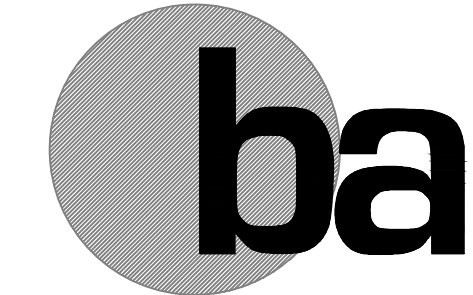
SHEET NO.
CG-03



SCALE 1"=30'
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NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



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PROFESSIONAL SEAL:

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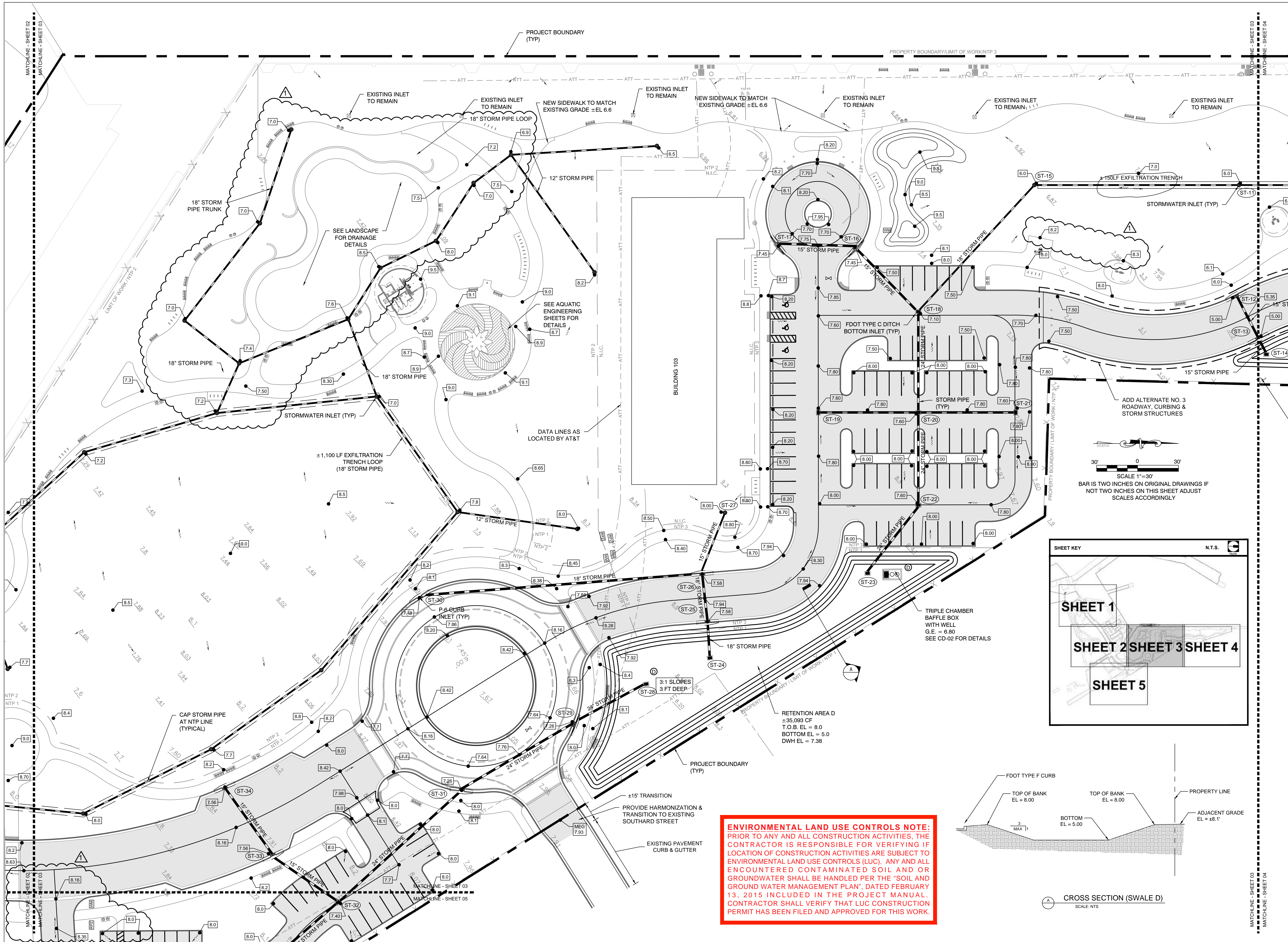
**BIDDING
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REVISIONS:	
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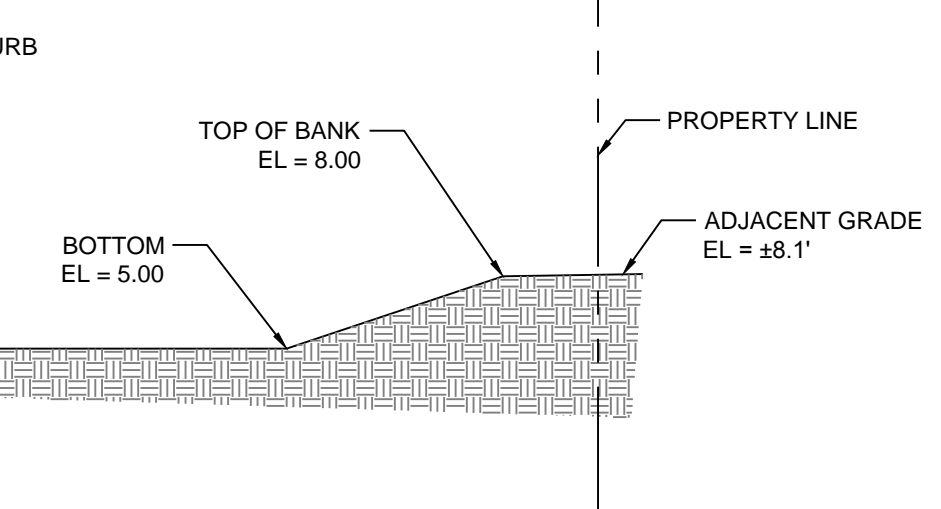
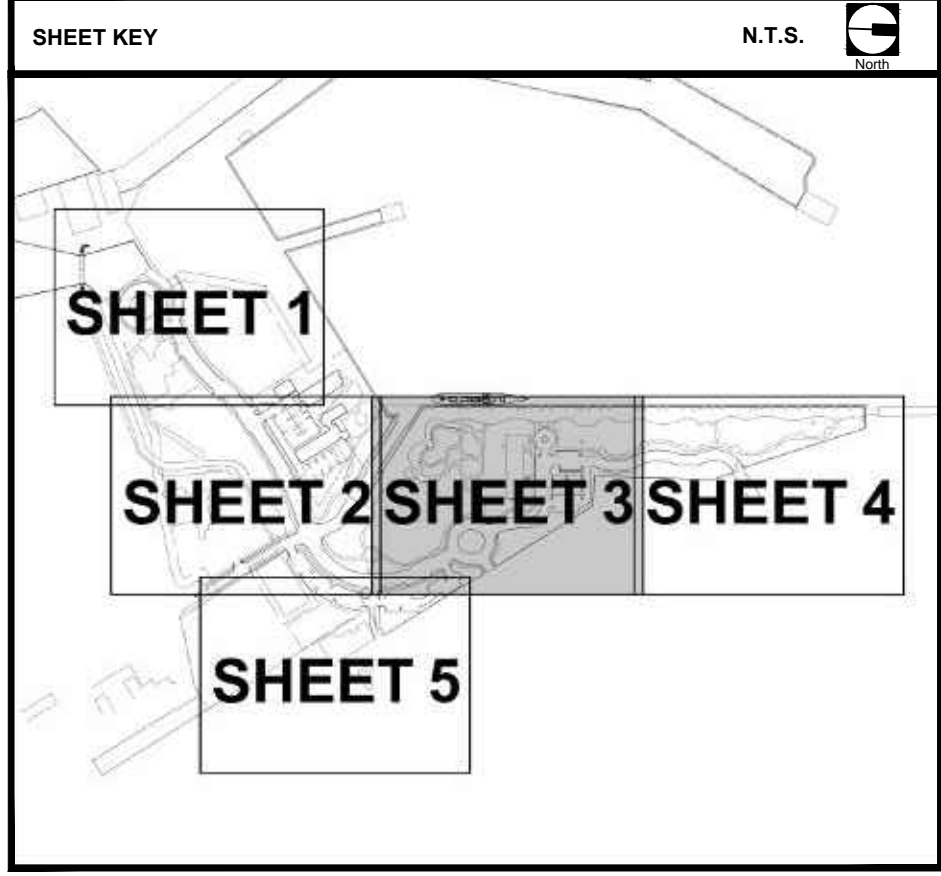
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BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**SITE GEOMETRY
PLAN**

SHEET NO.
CG-05



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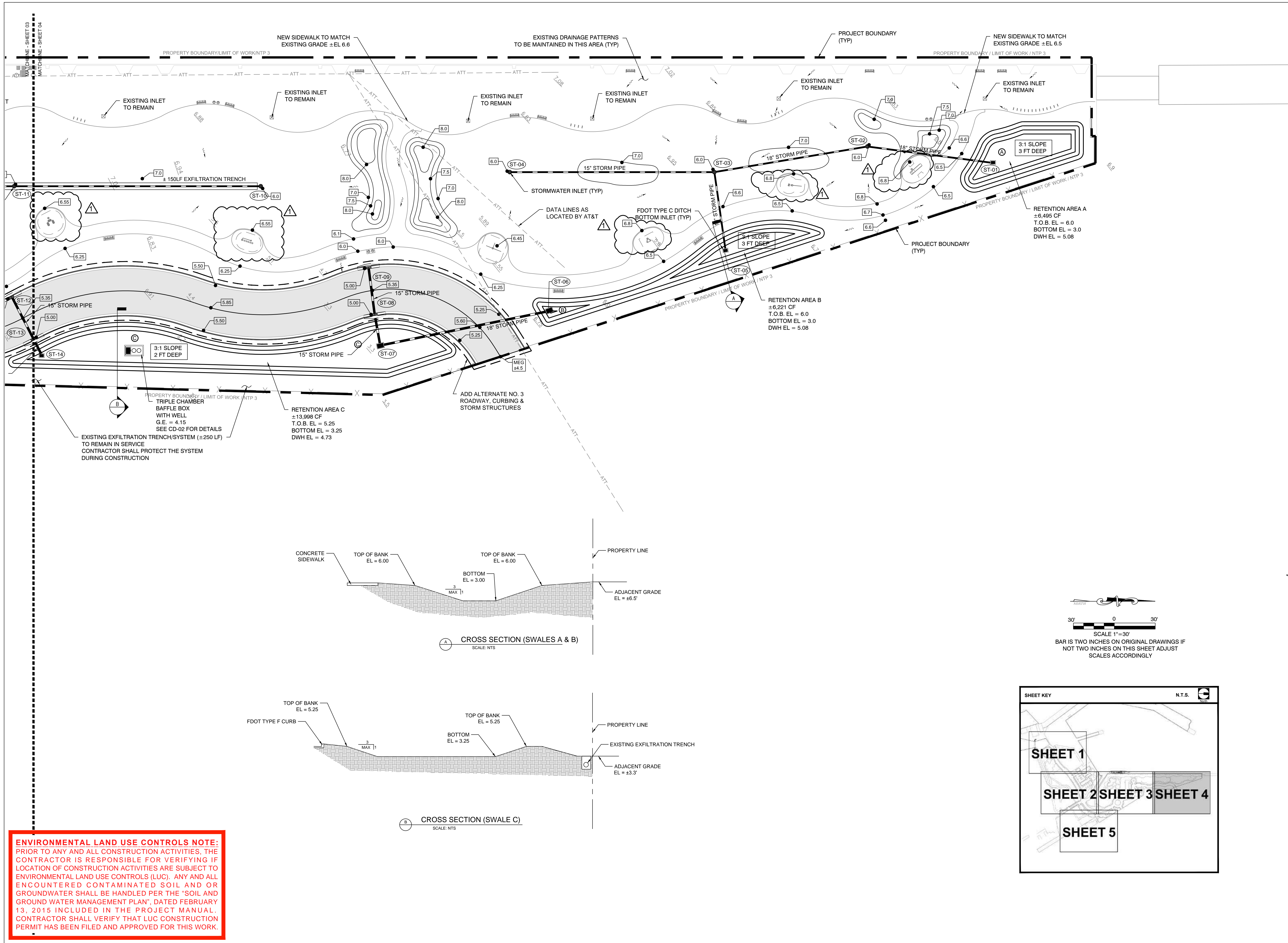
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DRAWING SHEET INFORMATION

BA PROJECT NO.:	14041
SCALE:	1" = 30'
DATE:	June 25, 2015
DRAWN BY:	BGO
CHECKED BY:	AEP

DRAWING TITLE:
**PAVING, GRADING,
& DRAINAGE PLAN**

SHEET NO.
CP-03



PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
**PEREZ ENGINEERING &
DEVELOPMENT, INC.**
Certificate of Authorization No. 8579

1010 Kennedy Drive
Suite 201
Key West, Florida 33040
(305) 293-9440
Fax (305) 296-0243

PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468
SUBMITTAL DESCRIPTION / MILESTONE:

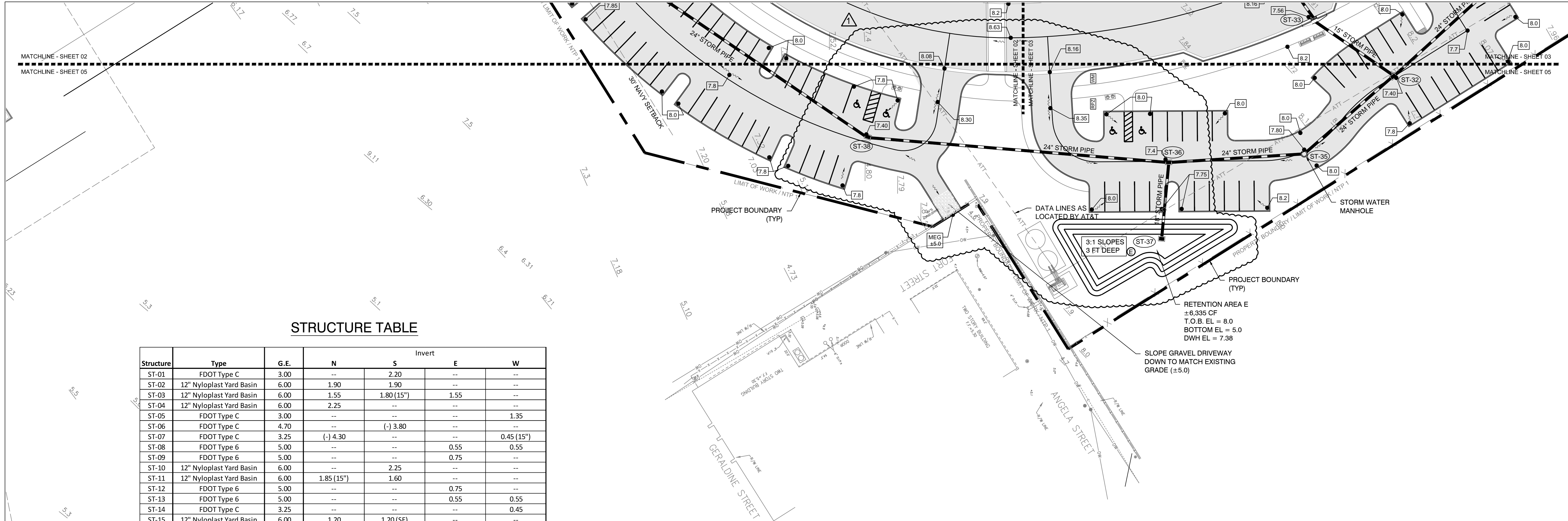
**BIDDING
August 30, 2015**

REVISIONS:	
	09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**PAVING, GRADING,
& DRAINAGE PLAN**

SHEET NO.
CP-04



STRUCTURE TABLE

Structure	Type	G.E.	Invert			
			N	S	E	W
ST-01	FDOT Type C	3.00	--	2.20	--	--
ST-02	12" Nyloplast Yard Basin	6.00	1.90	1.90	--	--
ST-03	12" Nyloplast Yard Basin	6.00	1.55	1.80 (15")	1.55	--
ST-04	12" Nyloplast Yard Basin	6.00	2.25	--	--	--
ST-05	FDOT Type C	3.00	--	--	--	1.35
ST-06	FDOT Type C	4.70	--	(-) 3.80	--	--
ST-07	FDOT Type C	3.25	(-) 4.30	--	--	0.45 (15")
ST-08	FDOT Type 6	5.00	--	--	0.55	0.55
ST-09	FDOT Type 6	5.00	--	--	0.75	--
ST-10	12" Nyloplast Yard Basin	6.00	--	2.25	--	--
ST-11	12" Nyloplast Yard Basin	6.00	1.85 (15")	1.60	--	--
ST-12	FDOT Type 6	5.00	--	--	0.75	--
ST-13	FDOT Type 6	5.00	--	--	0.55	0.55
ST-14	FDOT Type C	3.25	--	--	--	0.45
ST-15	12" Nyloplast Yard Basin	6.00	1.20	1.20 (SE)	--	--
ST-16	FDOT Type 6	7.45	--	2.55	2.55 (NE)	--
ST-17	FDOT Type 6	7.45	2.75	--	--	--
ST-18	FDOT Type C	7.10	0.90 (NW)	--	0.40	2.25 (SW) (15")
ST-19	FDOT Type C	7.60	2.85	--	--	--
ST-20	FDOT Type C	7.60	2.55 (15")	2.55 (15")	0.20	0.20
ST-21	FDOT Type C	7.60	--	2.85	--	--
ST-22	FDOT Type C	7.60	--	0.00 (SE)	--	0.00
ST-23	FDOT Type C	5.00	(-) 0.20	--	--	--
ST-24	FDOT Type C	5.00	--	--	--	(-) 1.00
ST-25	FDOT Type 6	7.58	--	--	(-) 0.90	(-) 0.90
ST-26	FDOT Type 6	7.58	--	2.65	(-) 0.70	2.90 (15")
ST-27	12" Nyloplast Yard Basin	8.00	--	--	3.05	--
ST-28	FDOT Type C	5.00	--	--	--	--
ST-29	FDOT Type 6	7.26	(-) 1.60 (NW)	(-) 1.60 (SE)	--	--
ST-30	FDOT Type 6	7.48	3.25	--	--	--
ST-31	FDOT Type 6	7.26	(-) 1.30 (NW)	(-) 1.30 (SE)	--	--
ST-32	FDOT Type C	7.40	(-) 0.90 (NW)	(-) 0.90 (SE)	--	1.30 (SW) (15")
ST-33	FDOT Type 6	7.56	--	--	1.55 (NE)	1.55
ST-34	FDOT Type 6	7.56	--	--	1.80	--
ST-35	Stormwater Manhole	7.80	(-) 0.65 (NW)	(-) 0.65	--	--
ST-36	FDOT Type C	7.40	(-) 0.40	(-) 0.40	0.10 (18")	--
ST-37	FDOT Type C	5.00	--	--	--	0.30
ST-38	FDOT Type C	7.40	0.20	--	--	0.20 (SW)
ST-39	FDOT Type C	7.40	0.65 (NW)	--	0.65 (NE)	--
ST-40	FDOT Type 6	7.32	1.25 (NW)	0.85 (SE)	--	0.85 (SW)
ST-41	FDOT Type 6	7.32	1.35 (NW)	1.35 (SE)	--	--
ST-42	Stormwater Manhole	7.68	1.60 (NW)	2.30 (SE) (18")	1.10 (NE)	1.10 (SW)
ST-43	NOT USED	--	--	--	--	--
ST-44	NOT USED	--	--	--	--	--
ST-45	FDOT Type 5	7.20	2.60 (NW)	--	2.85 (NE) (15")	--
ST-46	FDOT Type 5	7.20	--	--	--	2.95 (SW)
ST-47	FDOT Type 6	6.95	1.90 (NW) (18")	--	0.20 (NE)	0.20 (SW)
ST-48	FDOT Type 6	6.95	--	2.00 (SE)	--	--
ST-49	FDOT Type 6	6.91	(-) 1.00 (NW) (18")	--	(-) 1.00 (NE)	(-) 1.00 (SW)
ST-50	FDOT Type 6	7.11	--	(-) 0.80 (SE)	--	--
ST-51	FDOT Type 6	7.10	--	(-) 1.00 (SE)	--	--
ST-52	FDOT Type 6	7.10	(-) 1.20 (NW) (18")	--	(-) 1.70 (NE)	(-) 1.70 (SW)
ST-53	Stormwater Manhole	7.48	--	(-) 2.45	(-) 2.45 (NE)	--
ST-54	FDOT Type 6	6.80	0.50 (NW) (18")	(-) 2.80 (SE)	(-) 2.80 (NE)	--
ST-55	FDOT Type C	3.00	(-) 3.00 (NW)	--	--	--
ST-56	FDOT Type 6	6.80	--	1.00 (SE)	--	--
ST-57	FDOT Type C	3.00	--	--	(-) 1.00	--
ST-58	FDOT Type C	3.00	--	--	--	(-) 1.00
ST-59	Stormwater Manhole	7.30	(-) 4.5 (NW)	0.10 (+/-) (SE)	--	--
ST-60	Stormwater Manhole	7.60	0.00 (+/-) (NW)	(-) 4.6 (SE)	--	--

Water Quantity Calculations - 25yr/72hr Design Storm					
<i>Water Quantity - Predevelopment</i>					
Project Area	A =	20.085	ac	874,884	sf
Pervious Area		10.880	ac	473,060	sf
Impervious Area		9.225	ac	401,824	sf
% Impervious		45.93%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		4	ft		
Predeveloped Available Storage		8.18	in		
Soil Storage	S =	4.42	in		
Q _{pre} = (P ₇₂ - 0.2S) ² / (P ₇₂ + 0.8S)	Q _{pre} =	8.16	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	163.97	ac-in		
<i>Water Quantity - Postdevelopment</i>					
Project Area	A =	20.085	ac	874,884	sf
Pervious Area		9.548	ac	415,910	sf
Impervious Area		10.537	ac	458,974	sf
% Impervious		52.5%			
Rainfall for 25yr/24hr event	P ₂₄ =	9	in		
Rainfall for 25yr/3day event	P ₇₂ =	12.23	in		
Depth to Water Table		4	ft		
Developed Available Storage		8.18	in		
Soil Storage	S =	3.89	in		
Q _{post} = (P ₂₄ - 0.2S) ² / (P ₂₄ + 0.8S)	Q _{post} =	8.55	in		
Runoff Volume from 25 year/ 3 day storm	V _{25yr/72h} =	171.73	ac-in		
<i>Postdevelopment - Predevelopment</i>					
Q _{pre-post} = Q _{post} - Q _{pre}	Q _{pre-post} =	0.39	in		
Pre/Post Volume = Q _{pre-post} x A	V _{pre-post} =	7.76	ac-in		

Exfiltration Trench Design		
Required trench length (L) =		
$K \left(H^2W + 2H^2Du - Du^2 + 2H2Ds \right) + 1.39x10^{-4}(W)(Du)$		
Hydraulic Conductivity, K= 0.000514		
H =	4	ft
W =	5	ft
Du =	2.5	ft
Ds =	0	ft
Trench Length Provided =	300	FT
Volume of Trench , V =	5.726	ac-in

Exfiltration Trench Design		
Required trench length (L) =		
$K \left(H^2W + 2H^2Du - Du^2 + 2H2Ds \right) + 1.39x10^{-4}(W)(Du)$		
Hydraulic Conductivity, K= 0.000514		
H =	4	ft
W =	5	ft
Du =	2.5	ft
Ds =	0	ft
Trench Length Provided =	1,100	FT
Volume of Trench , V =	20.994	ac-in

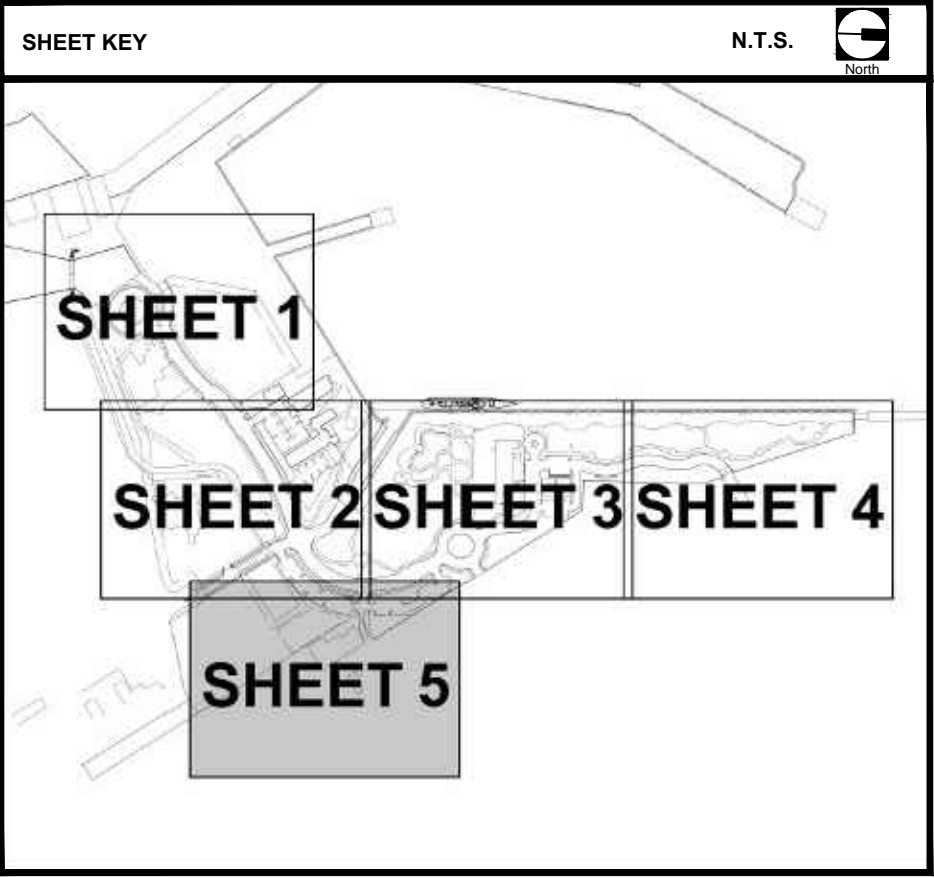
WATER QUALITY/PRETREATMENT CALCULATIONS

Basin	Total Area Acres	Impervious Area Acres	Roof Area Acres	Impervious for Water Quality (Acres)	1 ac-in Over Area	2.5 x Impervious	Required Volume Cubic Feet	Dry Retention Volume Cubic Feet	Exfiltration Volume Cubic Feet	Total Retention Cubic Feet
1	1.254	0.144	0.000	0.144	1.254	0.361	4553.25	4,958	0	4,958
2	1.091	0.559	0.000	0.559	1.091	1.399	5077.08	5,301	0	5,301
3	6.572	4.040	0.164	3.876	6.572	9.690	35173.75	21,826	20,784	42,609
4	4.884	1.692	0.172	1.521	4.884	3.802	17730.17	0	76,206	76,206
5	4.163	2.650	0.000	2.650	4.163	6.624	24045.63	25,103	0	25,103
TOTAL										154,178



30' 0 30'

SCALE 1"=30'
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NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



MATCHLINE - SHEET 02
MATCHLINE - SHEET 05

MATCHLINE - SHEET 03
MATCHLINE - SHEET 05



BERMELLO AJAMIL
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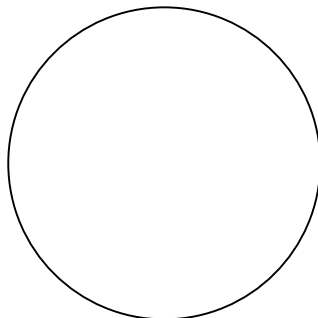
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51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041

SCALE: 1" = 30'

DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEP

DRAWING TITLE:

PAVING, GRADING,
& DRAINAGE PLAN

SHEET NO.

CP-05

ENVIRONMENTAL LAND USE CONTROLS NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE
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LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO
ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL
ENCOUNTERED CONTAMINATED SOIL AND OR
GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND
GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY
13, 2015 INCLUDED IN THE PROJECT MANUAL.
CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION
PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.



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PROJECT NAME:

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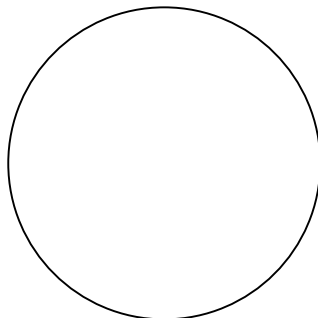
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**BIDDING
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REVISIONS:

09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:

**UTILITY
ABANDONMENT
PLAN**
SHEET NO.

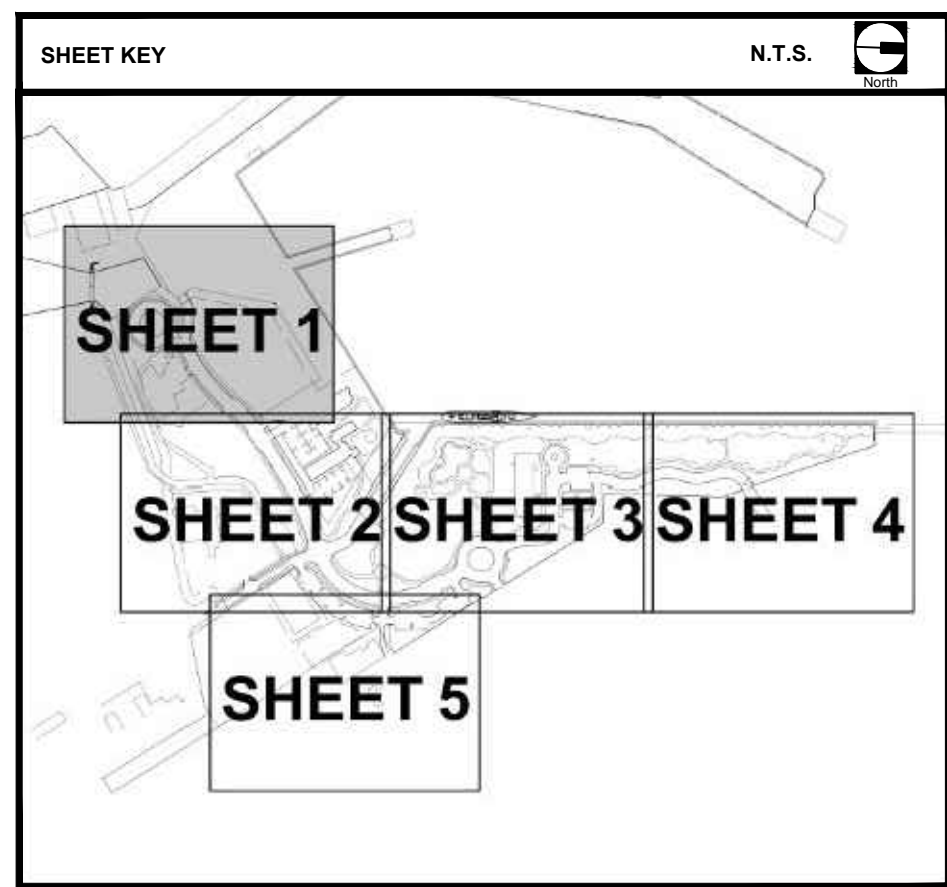
CA-01

UTILITY NOTES:

1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
3. ALL WATER MAIN WORK SHALL CONFORM TO THE LATEST FLORIDA KEY AQUEDUCT AUTHORITY'S STANDARDS AND SPECIFICATIONS.
4. FOR NEW STOPM PIPE THE CONTRACTOR SHALL PROVIDE ADS PIPE ADAPTER FLEXIBLE WATERTIGHT WATERSTOP CONNECTION WITH PIPE ADAPTER FOR ADS CORRUGATED HDPE PIPE TO STORM STRUCTURES, OR APPROVED EQUAL ADS PIPE ADAPTERS MEETING THE REQUIREMENTS OF ASTM F 2510 AND ASTM C 1478 FOR WATERTIGHT FLEXIBLE CONNECTIONS.
5. ALL UTILITIES TO BE ABANDONED SHALL NOT BE DISTURBED/REMOVED UNLESS REQUIRED TO ADDRESS A CONFLICT. ABANDONED UTILITIES SHALL BE CAPPED AND LEFT IN PLACE.

LEGEND	
- / -	UTILITIES TO BE ABANDONED
- - - - - be - - - - -	BURIED ELECTRIC
- - - - - fm - - - - -	FORCE MAIN
- - - - - gas - - - - -	GAS LINE
- - - - - ssn - - - - -	SANITARY SEWER
- - - - - ss - - - - -	STORM SEWER
- - - - - bt - - - - -	BURIED TELEPHONE
- - - - - wm - - - - -	WATER SERVICE
- - - - - > - - - - -	UTILITY TRENCH

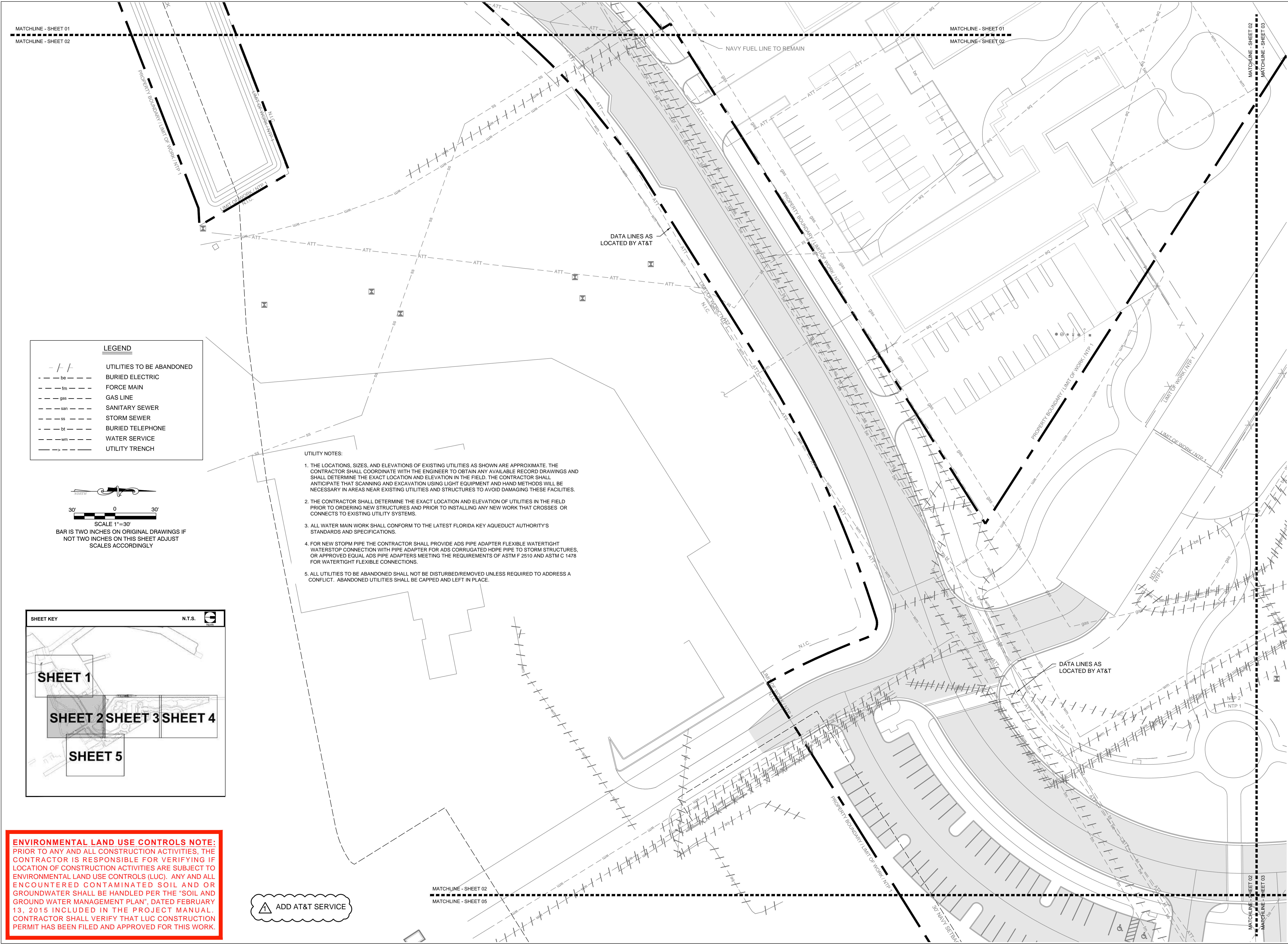
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NOT TWO INCHES ON THIS SHEET ADJUST
SCALES ACCORDINGLY



ENVIRONMENTAL LAND USE CONTROLS NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.

MATCHLINE - SHEET 01
MATCHLINE - SHEET 02

MATCHLINE - SHEET 01
MATCHLINE - SHEET 02



LEGEND

- / -	UTILITIES TO BE ABANDONED
--- be ---	BURIED ELECTRIC
--- fm ---	FORCE MAIN
--- gas ---	GAS LINE
--- san ---	SANITARY SEWER
--- ss ---	STORM SEWER
--- bt ---	BURIED TELEPHONE
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SHEET KEY N.T.S.

SHEET 1

SHEET 2 **SHEET 3** **SHEET 4**

SHEET 5

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ADD AT&T SERVICE

ba

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REVISIONS:

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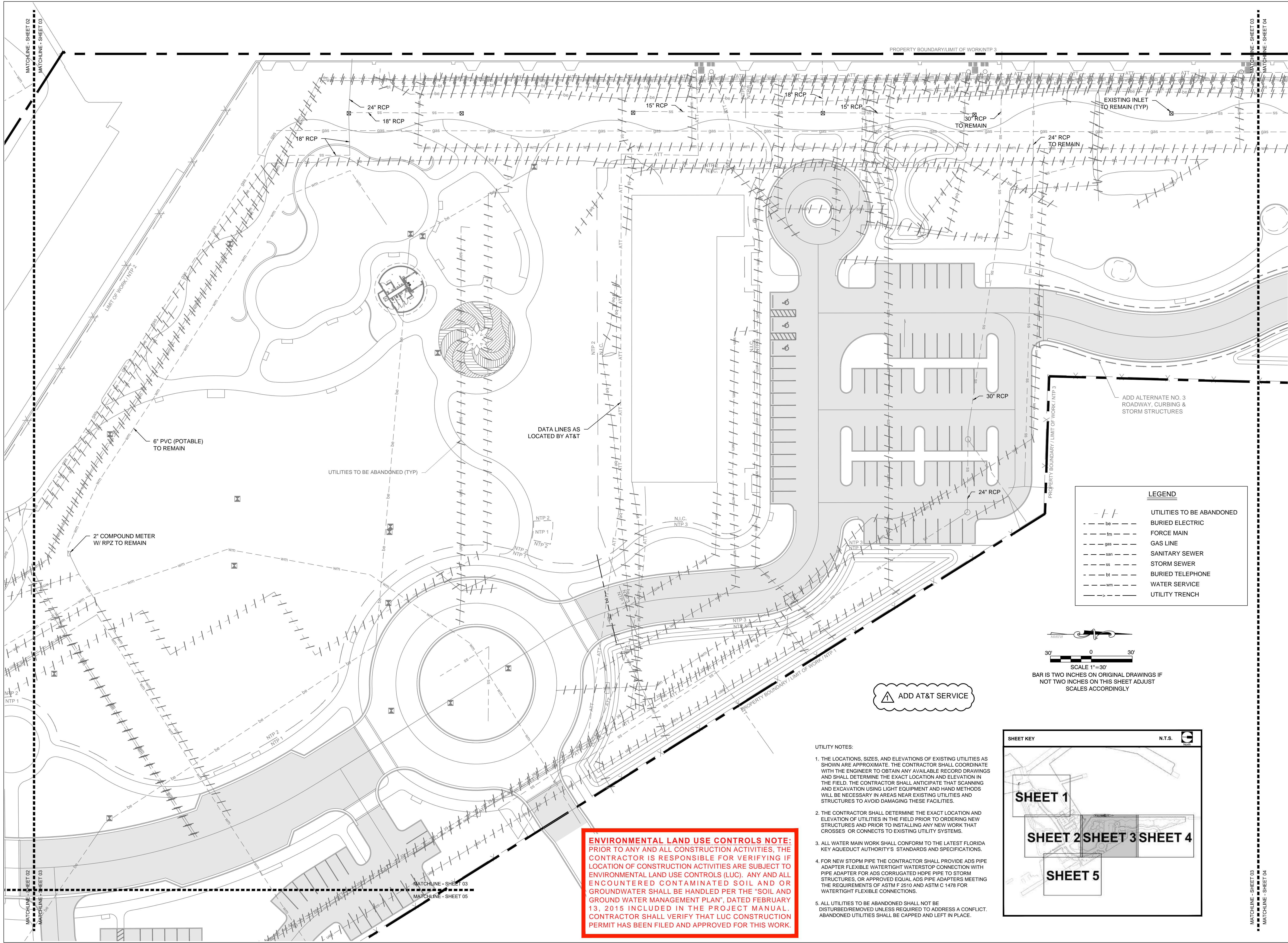
DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEP

DRAWING TITLE:
UTILITY
ABANDONMENT
PLAN
SHEET NO.

CA-02



ba

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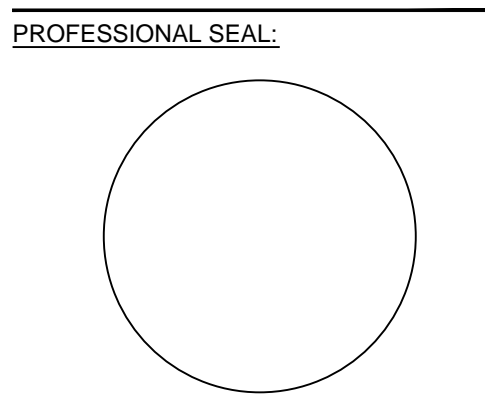


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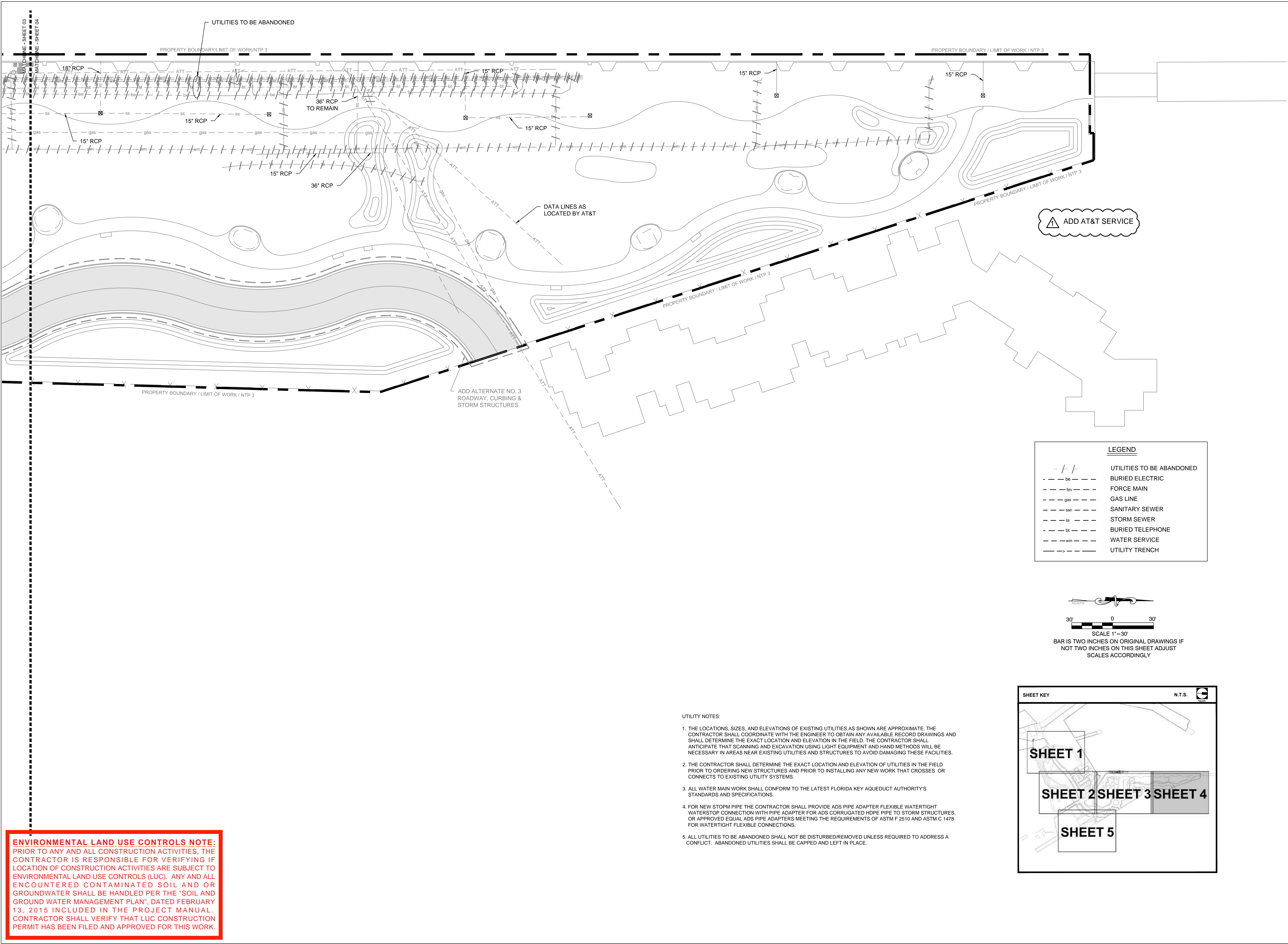
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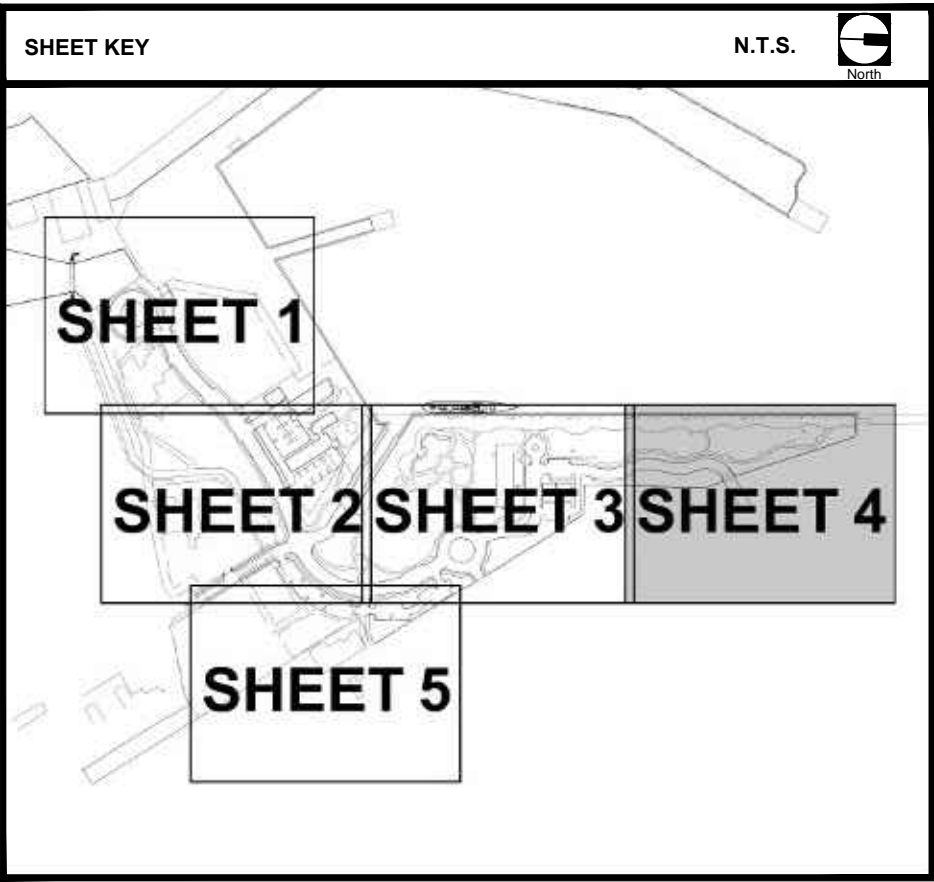
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CA-03

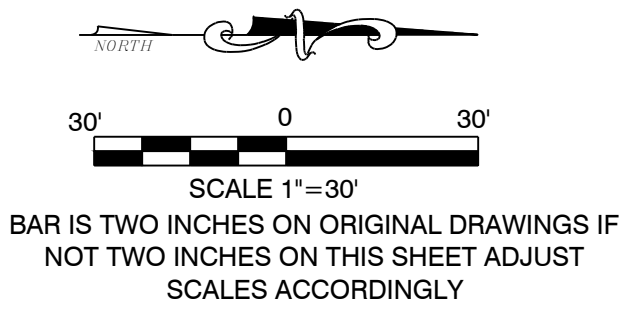


ENVIRONMENTAL LAND USE CONTROLS NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.

- UTILITY NOTES:
1. THE LOCATIONS, SIZES, AND ELEVATIONS OF EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO OBTAIN ANY AVAILABLE RECORD DRAWINGS AND SHALL DETERMINE THE EXACT LOCATION AND ELEVATION IN THE FIELD. THE CONTRACTOR SHALL ANTICIPATE THAT SCANNING AND EXCAVATION USING LIGHT EQUIPMENT AND HAND METHODS WILL BE NECESSARY IN AREAS NEAR EXISTING UTILITIES AND STRUCTURES TO AVOID DAMAGING THESE FACILITIES.
 2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND ELEVATION OF UTILITIES IN THE FIELD PRIOR TO ORDERING NEW STRUCTURES AND PRIOR TO INSTALLING ANY NEW WORK THAT CROSSES OR CONNECTS TO EXISTING UTILITY SYSTEMS.
 3. ALL WATER MAIN WORK SHALL CONFORM TO THE LATEST FLORIDA KEY AQUEDUCT AUTHORITY'S STANDARDS AND SPECIFICATIONS.
 4. FOR NEW STOPM PIPE THE CONTRACTOR SHALL PROVIDE ADS PIPE ADAPTER FLEXIBLE WATERTIGHT WATERSTOP CONNECTION WITH PIPE ADAPTER FOR ADS CORRUGATED HDPE PIPE TO STORM STRUCTURES, OR APPROVED EQUAL ADS PIPE ADAPTERS MEETING THE REQUIREMENTS OF ASTM F 2510 AND ASTM C 1478 FOR WATERTIGHT FLEXIBLE CONNECTIONS.
 5. ALL UTILITIES TO BE ABANDONED SHALL NOT BE DISTURBED/REMOVED UNLESS REQUIRED TO ADDRESS A CONFLICT. ABANDONED UTILITIES SHALL BE CAPPED AND LEFT IN PLACE.



LEGEND	
	UTILITIES TO BE ABANDONED
	BURIED ELECTRIC
	FORCE MAIN
	GAS LINE
	SANITARY SEWER
	STORM SEWER
	BURIED TELEPHONE
	WATER SERVICE
	UTILITY TRENCH



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Fax (305) 860-3700

PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
**PEREZ ENGINEERING &
DEVELOPMENT, INC.**
Certificate of Authorization No. 8579

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Fax (305) 296-0243

PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

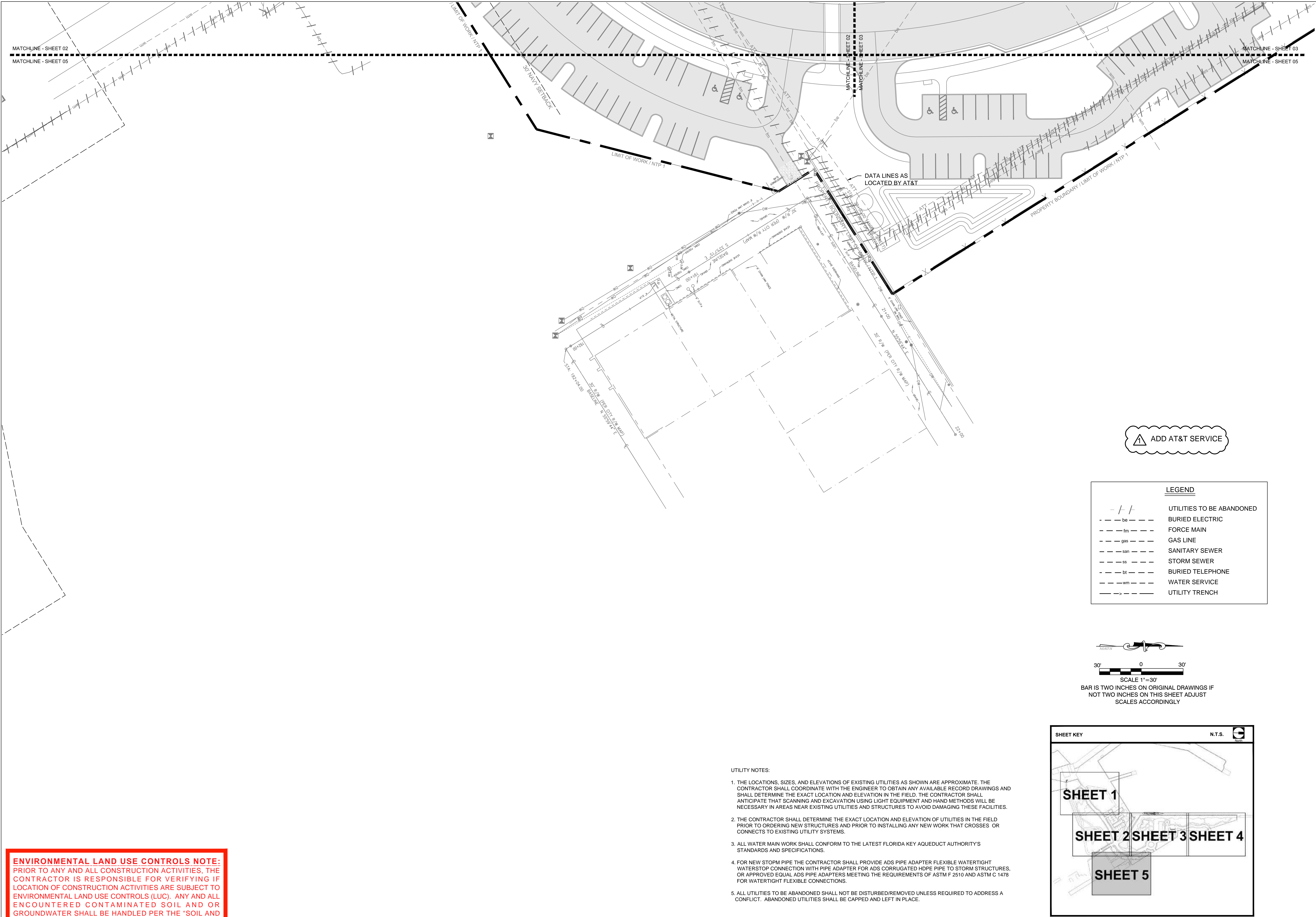
**BIDDING
August 30, 2015**

REVISIONS:	
	09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**UTILITY
ABANDONMENT
PLAN**
SHEET NO.

CA-04



PREPARED FOR/OWNER:
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P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



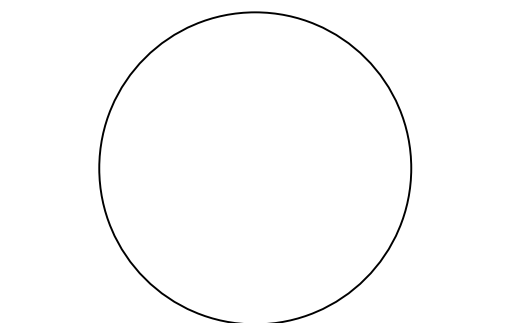
PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
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PROFESSIONAL SEAL:



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FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

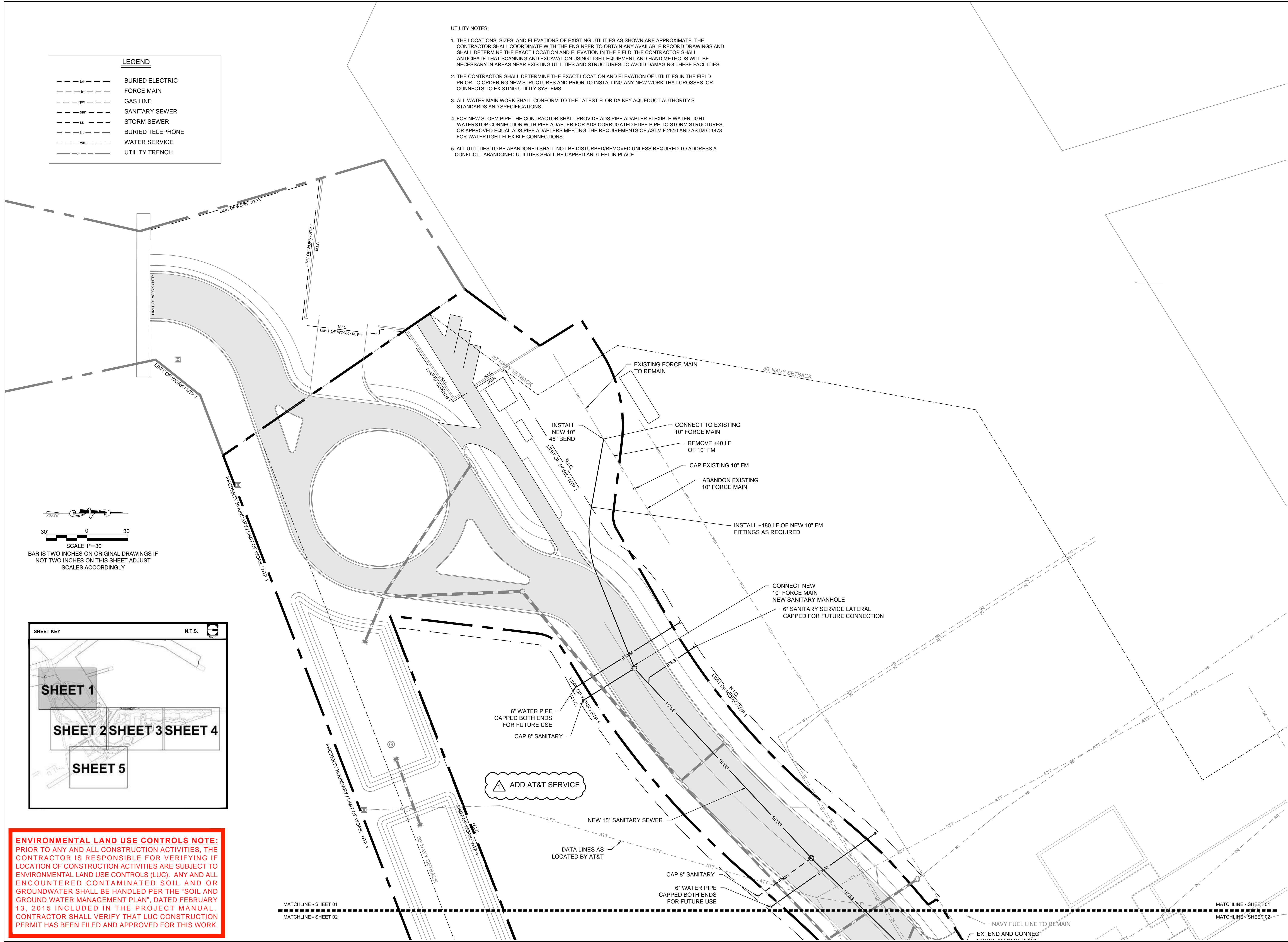
REVISIONS:

09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION
BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
**UTILITY
ABANDONMENT
PLAN**
SHEET NO.

CA-05



ba

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PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
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SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

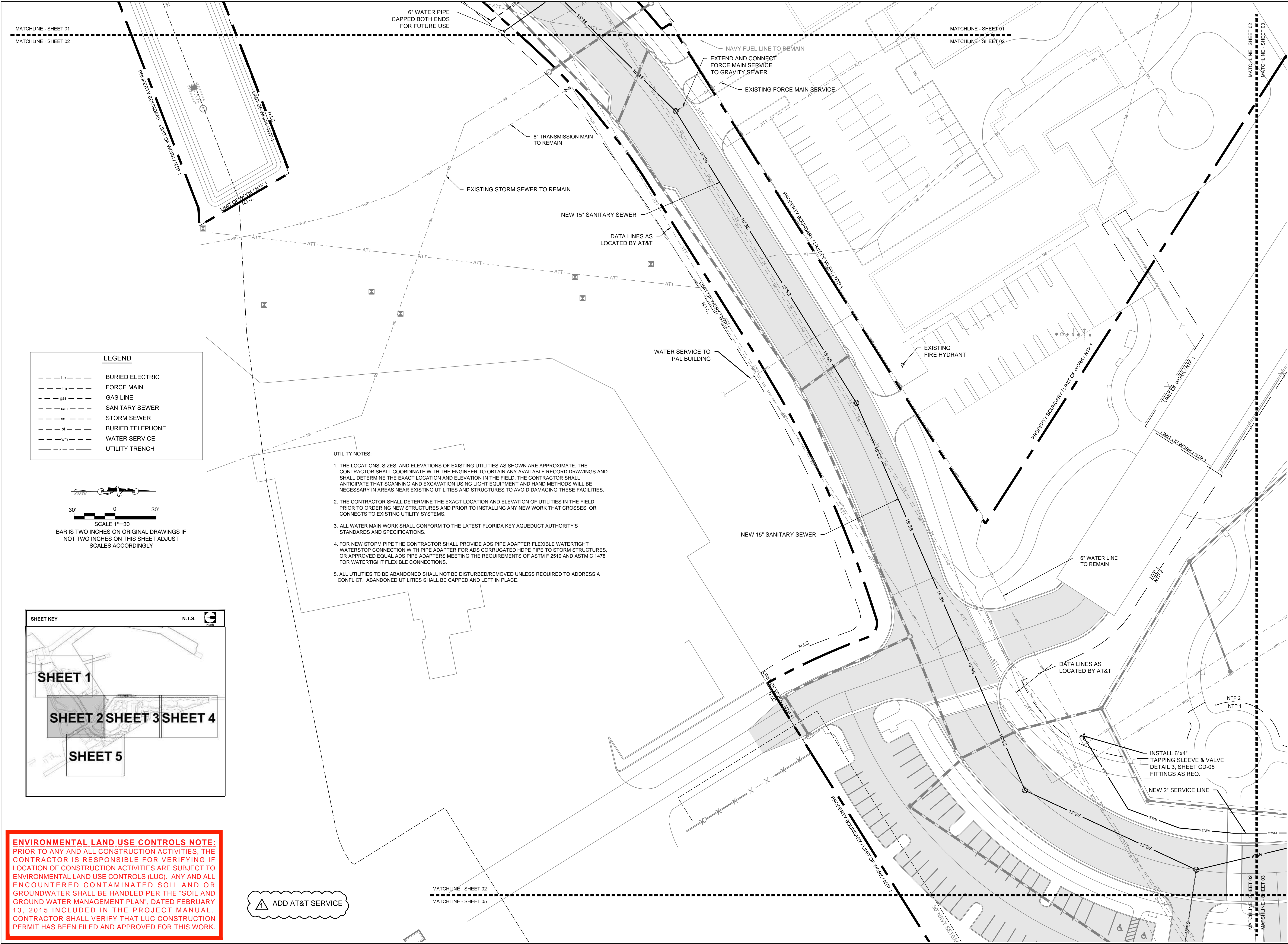
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DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: 1" = 30'
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.
CU-01



LEGEND

---	be	---	BURIED ELECTRIC
---	fm	---	FORCE MAIN
---	gas	---	GAS LINE
---	san	---	SANITARY SEWER
---	ss	---	STORM SEWER
---	bt	---	BURIED TELEPHONE
---	wm	---	WATER SERVICE
---	---	---	UTILITY TRENCH

30' 0 30'

SCALE 1"=30'

BAR IS TWO INCHES ON ORIGINAL DRAWINGS IF NOT TWO INCHES ON THIS SHEET ADJUST SCALES ACCORDINGLY

SHEET KEY

N.T.S.

SHEET 1

SHEET 2

SHEET 3

SHEET 4

SHEET 5

ENVIRONMENTAL LAND USE CONTROLS NOTE:
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ADD AT&T SERVICE

ba

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PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
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3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK

PROJECT LOCATION/ADDRESS:
**TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
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SUBMITTAL DESCRIPTION / MILESTONE:

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August 30, 2015

REVISIONS:

Δ	09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041

SCALE: 1" = 30'

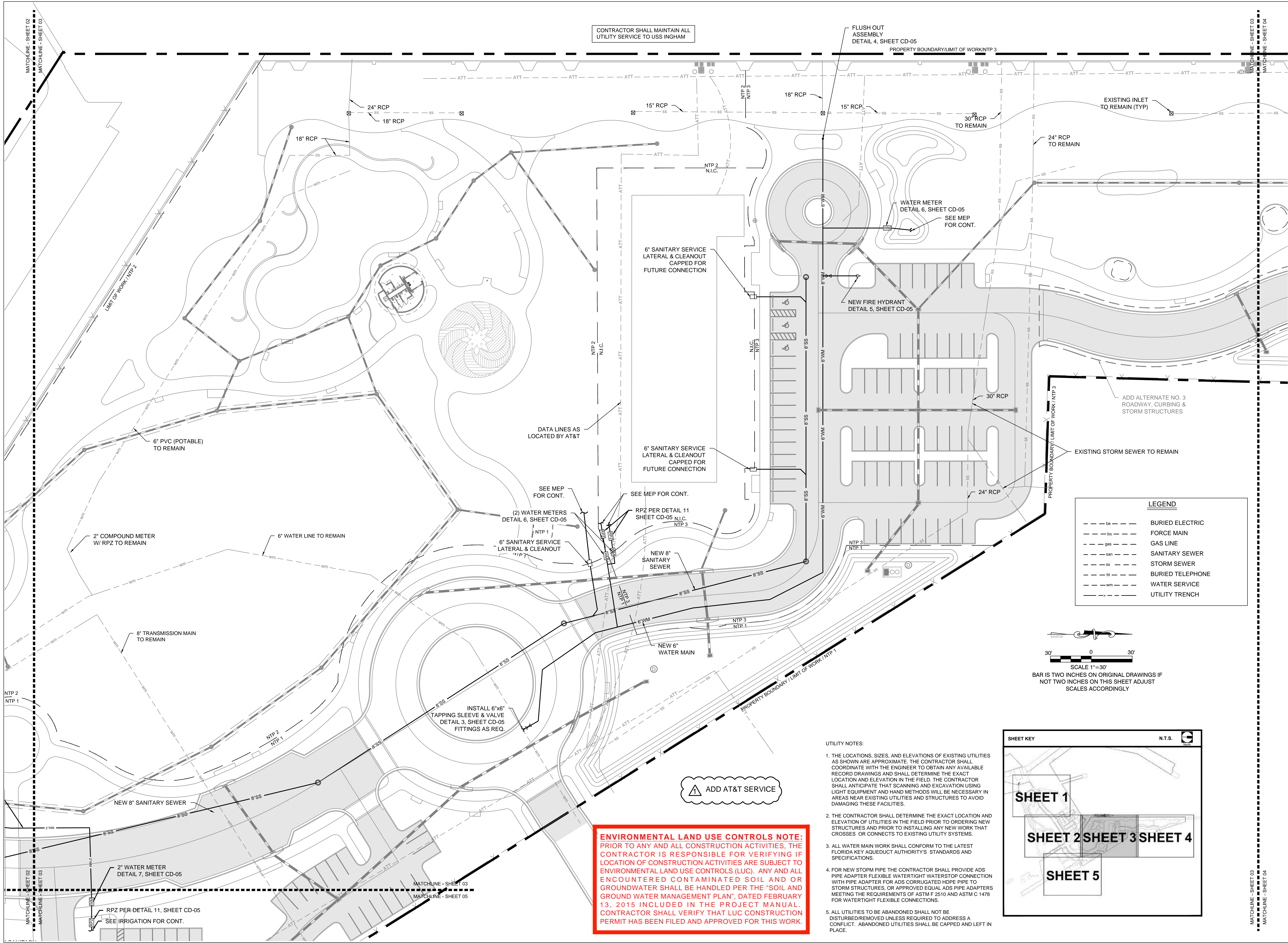
DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.
CU-02



PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
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WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE**

SUB-CONSULTANT INFORMATION:
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PROFESSIONAL SEAL:

ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

**BIDDING
August 30, 2015**

REVISIONS:

Δ	09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041

SCALE: 1" = 30'

DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEP

DRAWING TITLE:
UTILITY PLAN

SHEET NO.
CU-03



PREPARED FOR/OWNER:

PROJECT NAME:

PROJECT LOCATION/ADDRESS

SUB-CONSULTANT INFORMATION

Certificate of Authorization No. 8579

PROFESSIONAL SEAL:



SUBMITTAL DESCRIPTION / MILESTONE:

REVISIONS:

1 09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041

SCALE: 1" = 30'

DATE: June 1964

DRAWN BY: BGO

CHECKED BY: AEF

DRAWING TITLE:

SHEET NO.

ENVIRONMENTAL LAND USE CONTROLS NOTE:
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LEGEND

- be --- BURIED ELECTRIC
- fm --- FORCE MAIN
- gas --- GAS LINE
- san --- SANITARY SEWER
- ss --- STORM SEWER
- bt --- BURIED TELEPHONE
- wm --- WATER SERVICE
- >-->--> UTILITY TRENCH

SHEET KEY

SHEET 1
SHEET 2 SHEET 3 SHEET 4
SHEET 5

ENVIRONMENTAL LAND USE CONTROLS NOTE:
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PREPARED FOR/OWNER:

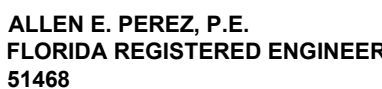
PROJECT NAME:

PROJECT LOCATION/ADDRESS

SUB-CONSULTANT INFORMATION

Certificate of Authorization No. 8579

PROFESSIONAL SEAL



SUBMITTAL DESCRIPTION / MILESTONE:

REVISIONS:

1 09-29-15 ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO : 14041

SCALE: 1" = 30'

DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEF

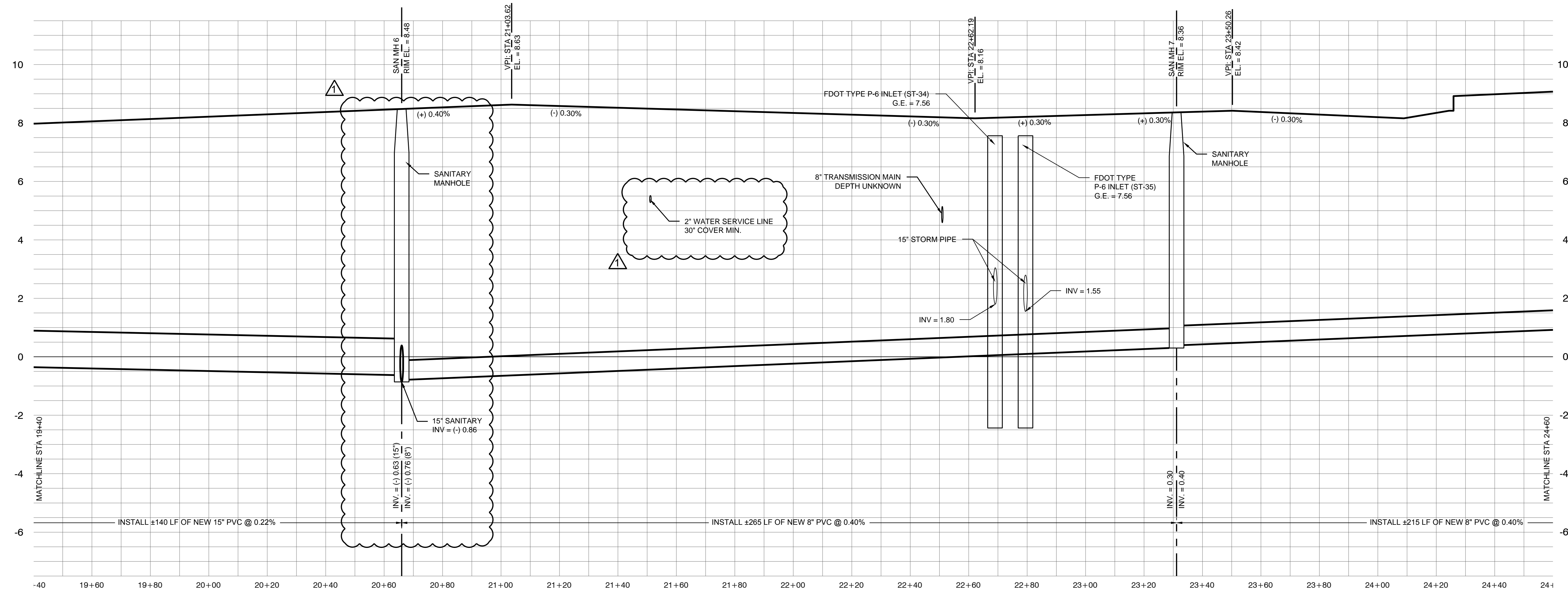
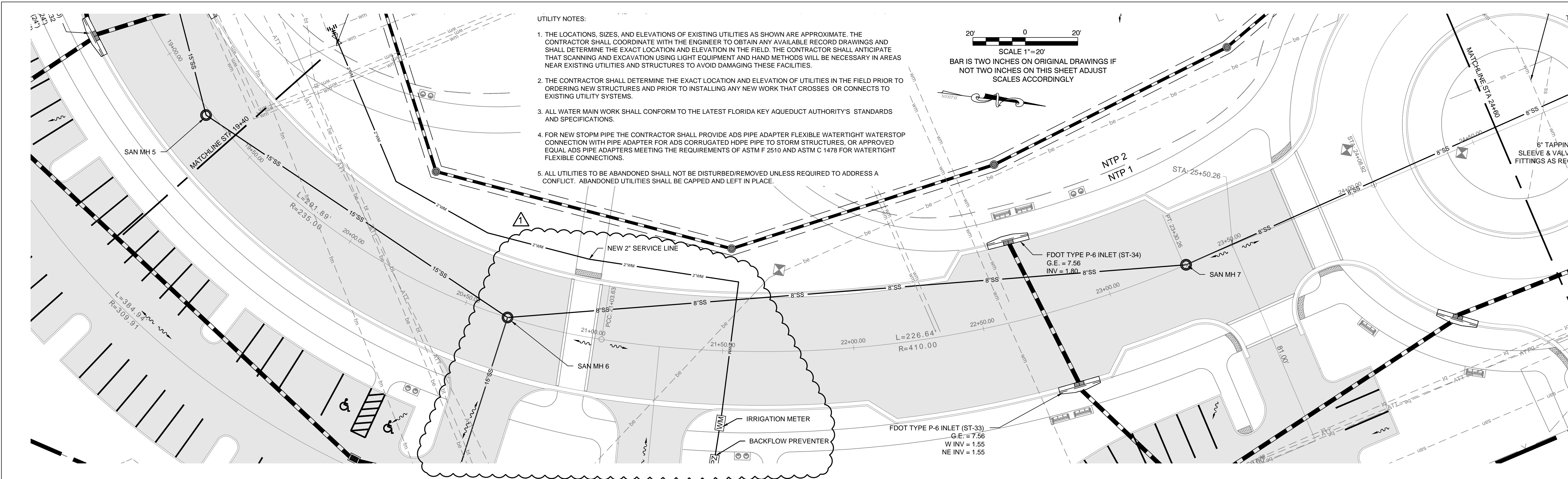
DRAWING TITLE

UTILITY PLAN

SHEET NO.

CU-05





ENVIRONMENTAL LAND USE CONTROLS NOTE:
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SCALE: 1"=20' HOR.
1"=2' VERT.

ba
BERMELLO AJAMIL
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Architecture • Engineering • Planning
Interior Design • Landscape Architecture
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Fax (305) 860-3700

PREPARED FOR/OWNER:
CITY OF KEY WEST, FL
P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:
TRUMAN WATERFRONT PARK

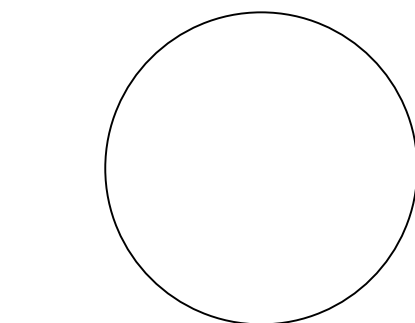
PROJECT LOCATION/ADDRESS:
TRUMAN WATERFRONT PARK
WEST OF FORT STREET AND THE
TRUMAN ANNEX DEVELOPMENT,
NORTH OF KEY WEST NAVAL BASE

SUB-CONSULTANT INFORMATION:

PEREZ ENGINEERING & DEVELOPMENT, INC.
Certificate of Authorization No. 8579

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Fax (305) 296-0243

PROFESSIONAL SEAL:



ALLEN E. PEREZ, P.E.
FLORIDA REGISTERED ENGINEER
51468

SUBMITTAL DESCRIPTION / MILESTONE:

BIDDING
August 30, 2015

REVISIONS:

09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041
SCALE: AS NOTED
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

DRAWING TITLE:
ROADWAY PLAN & PROFILE

SHEET NO.
CR-03



ENVIRONMENTAL LAND USE CONTROLS NOTE:
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PREPARED FOR/OWNER:
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KEY WEST, FL 33041**



PROJECT NAME:
**TRUMAN
WATERFRONT
PARK**

PROJECT LOCATION/ADDRESS:
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REVISIONS:

09-29-15	ADDENDA No. 2

DRAWING SHEET INFORMATION

BA PROJECT NO.: 14041

SCALE: 1" = 30'

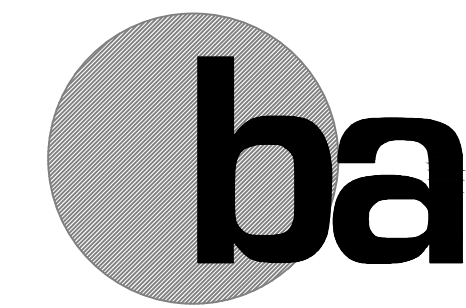
DATE: June 25, 2015

DRAWN BY: BGO

CHECKED BY: AEP

DRAWING TITLE:
**SIGNAGE &
PAVEMENT
MARKING PLAN**
SHEET NO.

CM-05



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& PARTNERS • INC

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Interior Design • Landscape Architecture
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P. O. BOX 1409
3140 FLAGLER AVENUE
KEY WEST, FL 33041



PROJECT NAME:

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WATERFRONT
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PROJECT LOCATION/ADDRESS:

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WEST OF FORT STREET AND THE
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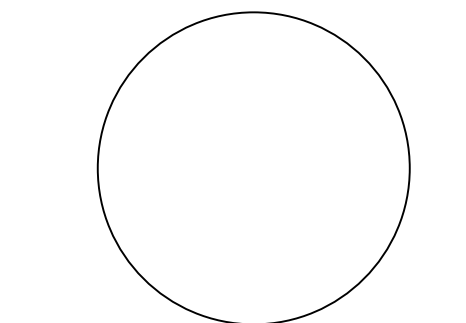
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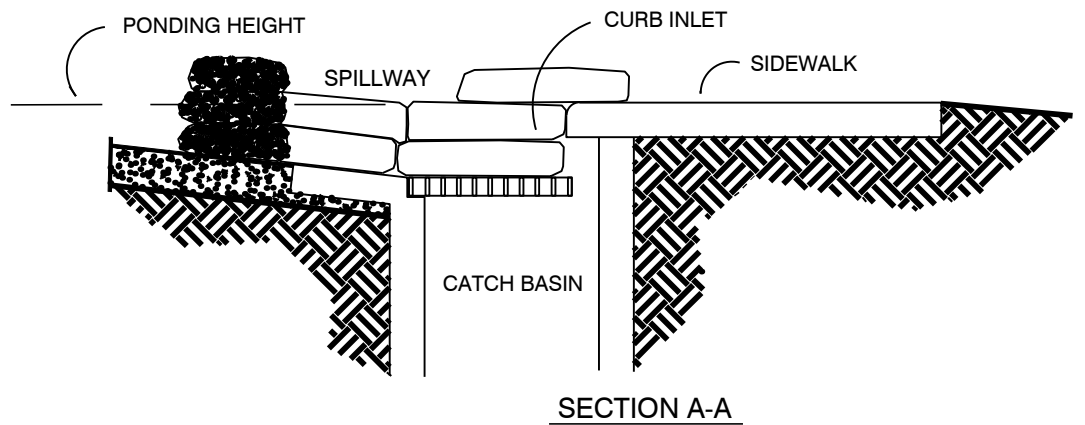
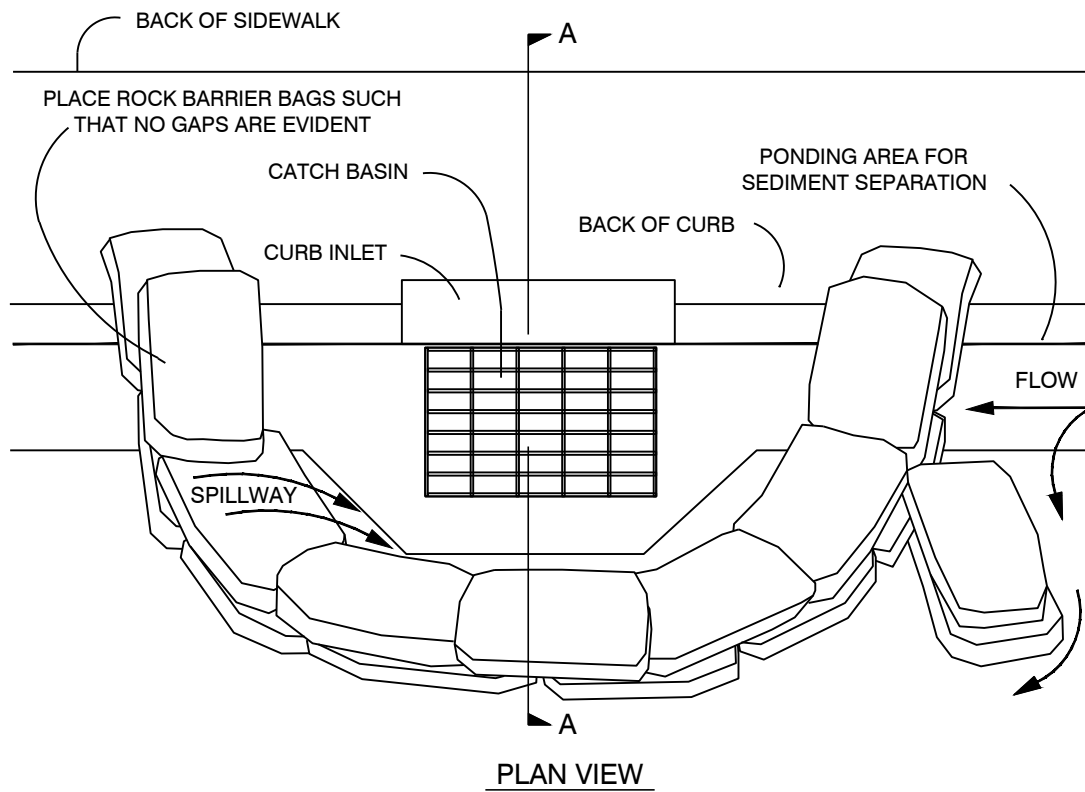
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BA PROJECT NO.: 14041
SCALE: N/A
DATE: June 25, 2015
DRAWN BY: BGO
CHECKED BY: AEP

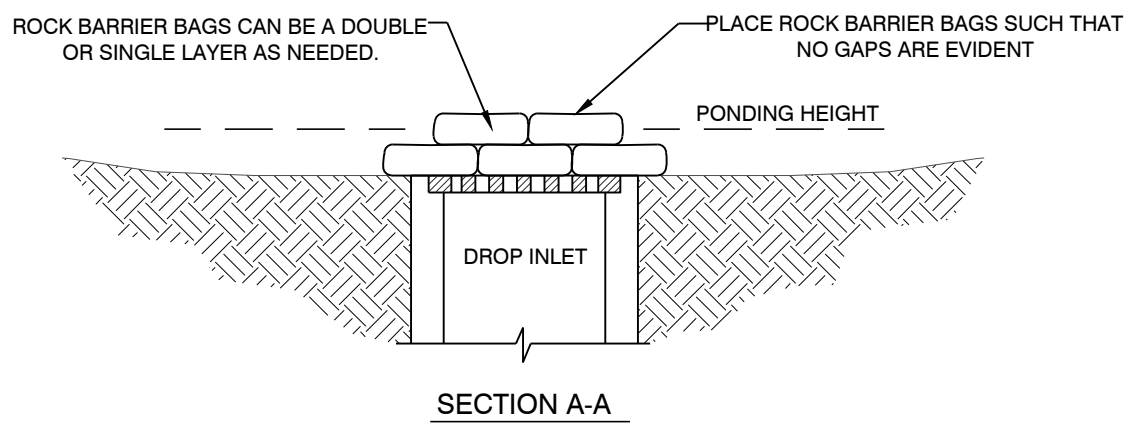
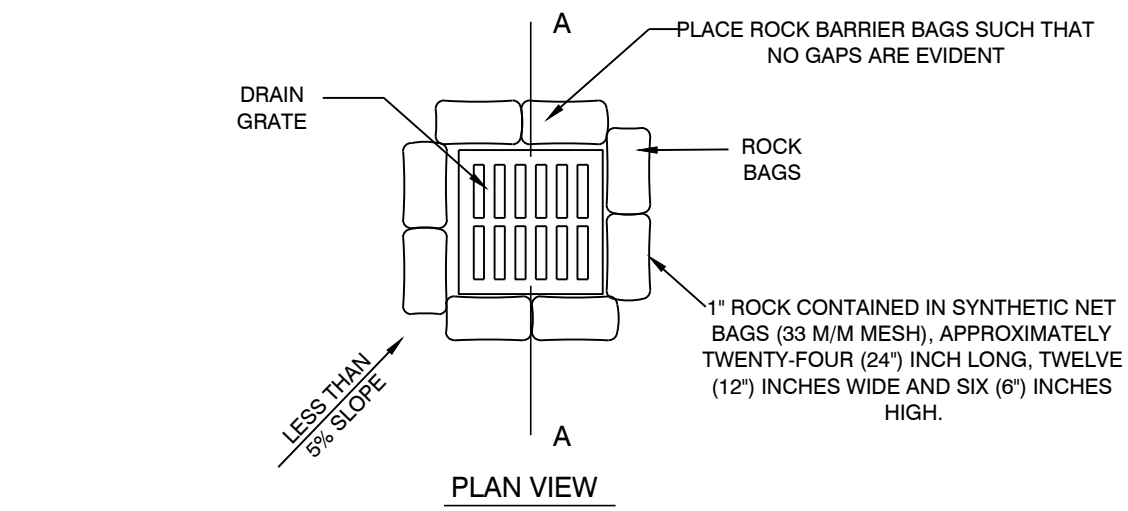
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CIVIL DETAILS

SHEET NO.

CD-01

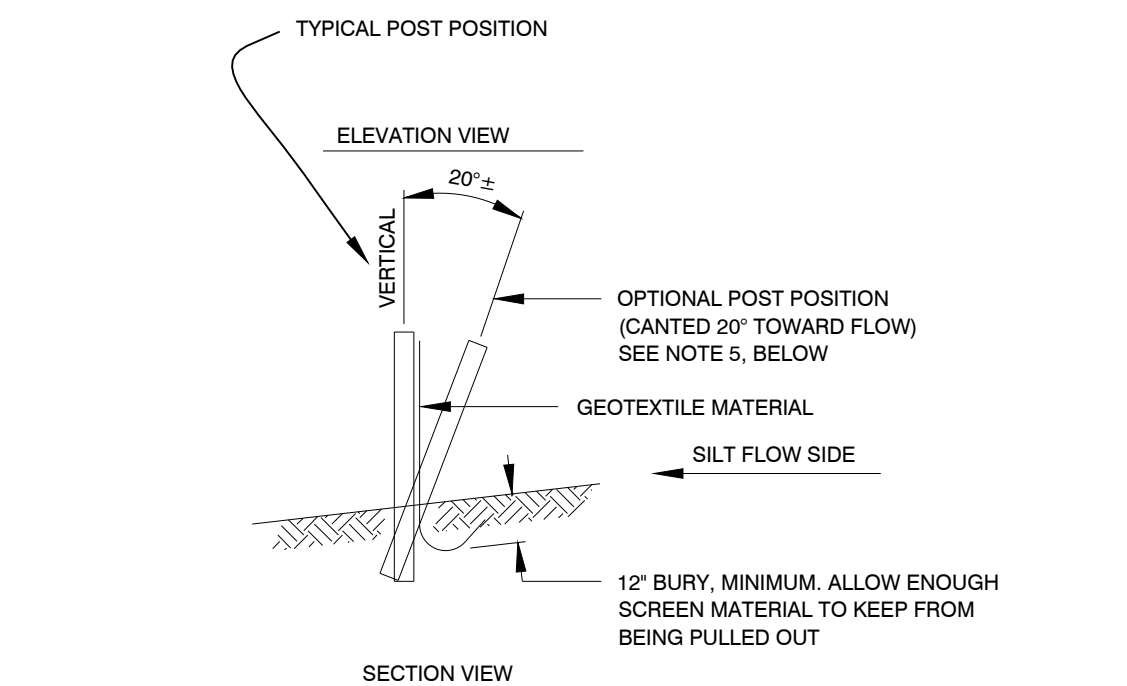
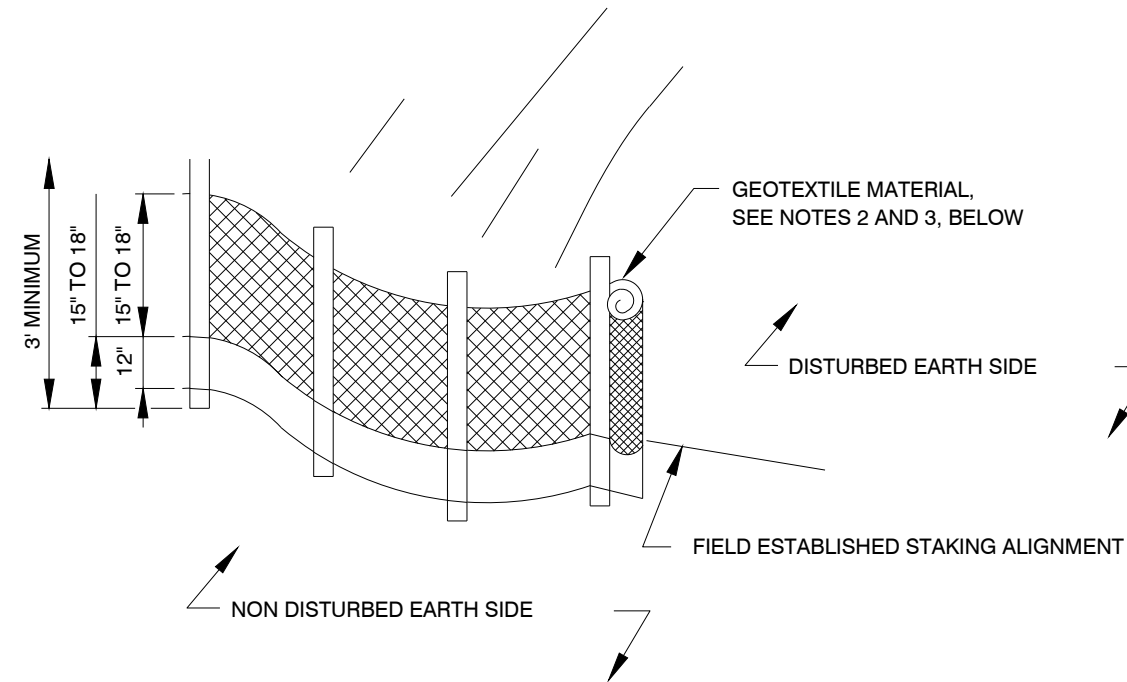


2 Silt Rock Bag Curb Inlet Filter
NTS



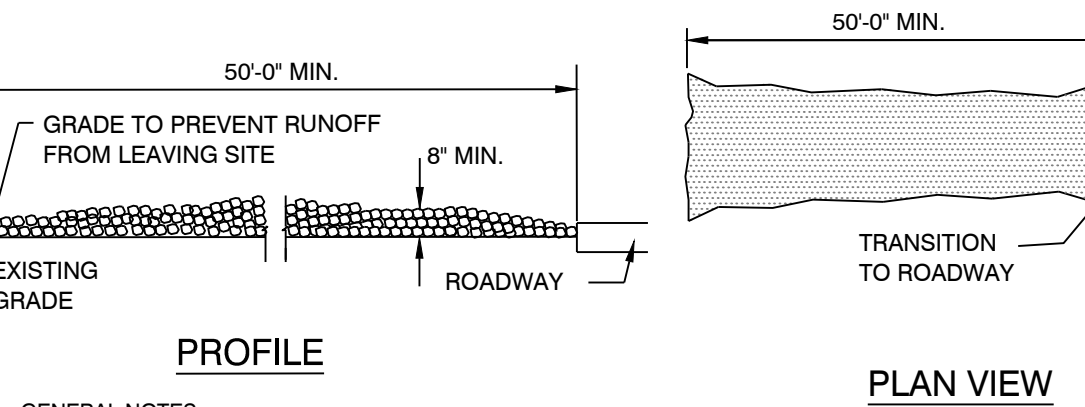
- NOTES:
- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%.)
 - A "REASONABLE" DESIGN SIZE PARTICLE TO CAPTURE MUST BE SELECTED.
 - SIZE DISTRIBUTION OF UPSTREAM SOIL PARTICLES MUST BE EVALUATED.
 - INFLOW AND OUTFLOW FROM THE SYSTEM FOR A SPECIFIC FREQUENCY STORM MUST BE KNOWN.
 - POND VOLUME IS DIRECTLY PROPORTIONAL TO THE DISCHARGE RATE OF WATER FROM THE SYSTEM.
 - POND VOLUME IS INVERSELY PROPORTIONAL TO THE MASS OF THE DESIGN SIZE SUSPENDED PARTICLE.
 - A SYSTEM MUST PROVIDE SUFFICIENT FLOW TO ALLOW FOR DEPOSITION OF DESIGN SIZE PARTICLES.
 - THE PONDING HEIGHT MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

3 Silt Rock Bag Drop Inlet Filter
NTS



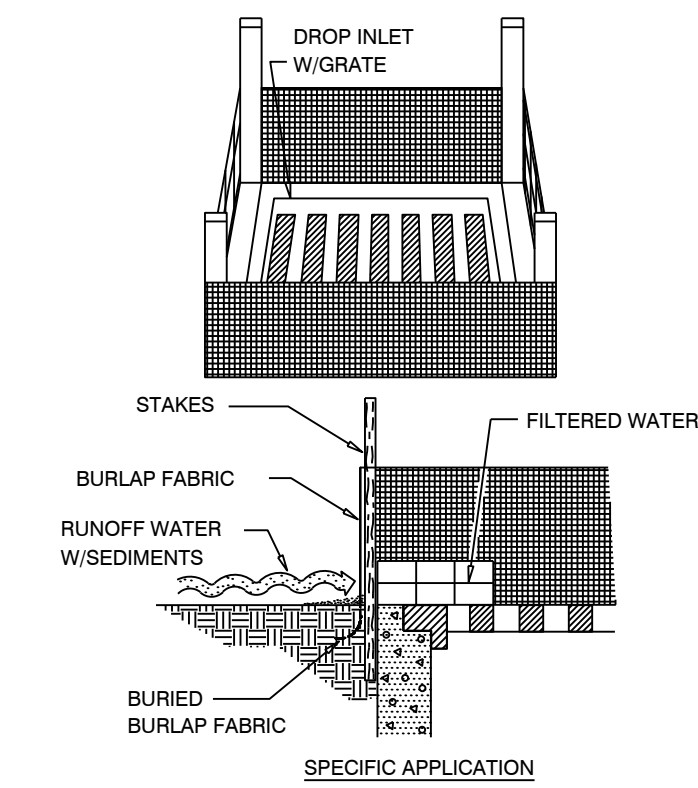
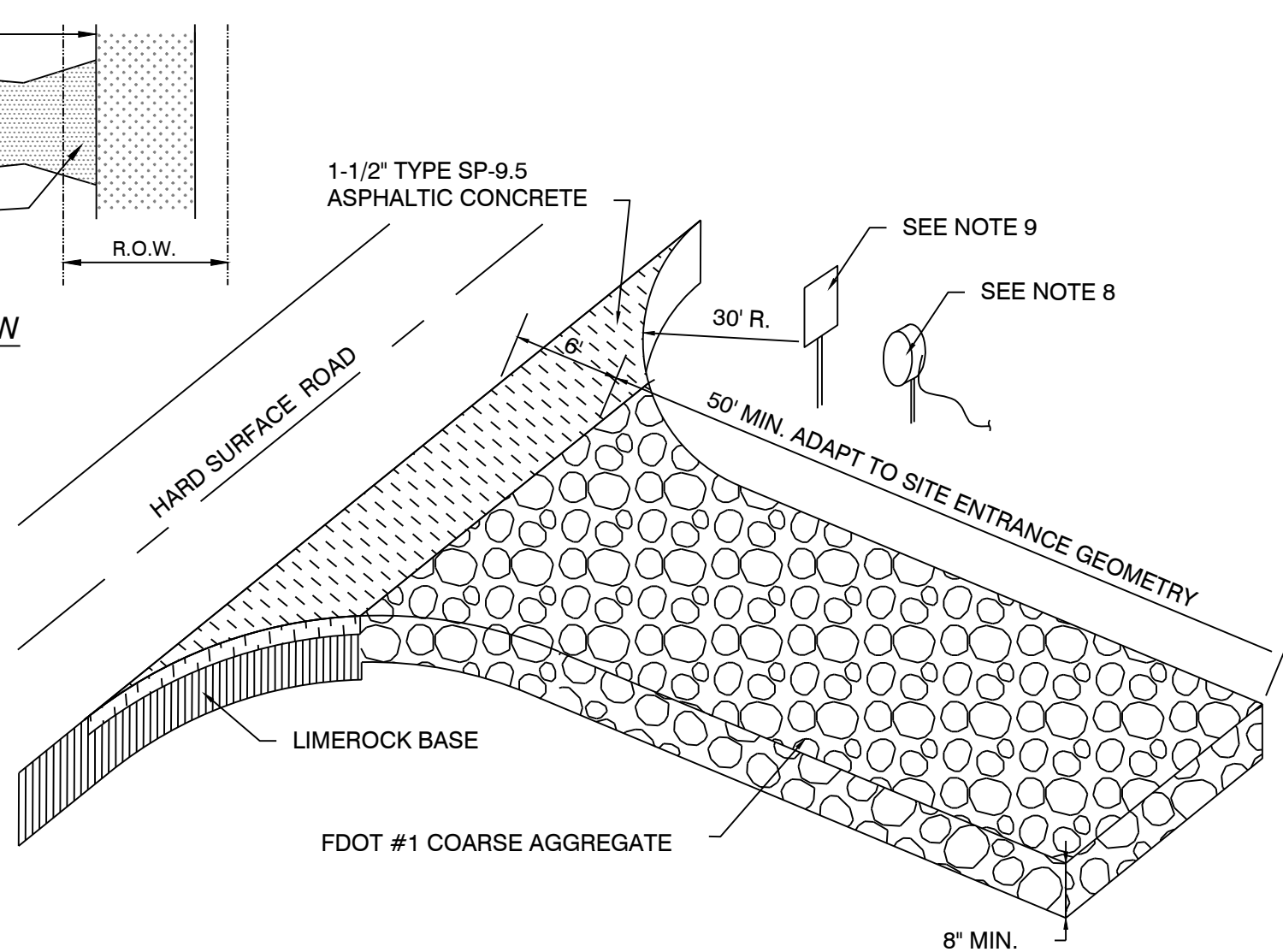
- NOTES:
- POST: 2"x2" WOOD, P.T. OR 2-1/2" O STEEL AT 6' CENTERS, MAXIMUM.
 - GEOTEXTILE: GRAB TENSILE AT 90 LBS. TRAPEZODAL TEAR AT 35 LBS. MULLEN BURST AT 180 PSI.
 - GEOTEXTILE MATERIAL SHALL BE BURIED IN THE GROUND A MINIMUM OF 12" AND BACK FILLED.
 - ALSO SEE FDOT INDEX 199, "GEOTEXTILE CRITERIA", EROSION CLASS.
 - OPTIONAL POST POSITION REQUIRED WHEN SLOPE IS GREATER THAN 1:2.

4 Staked Silt Barrier Detail
NTS



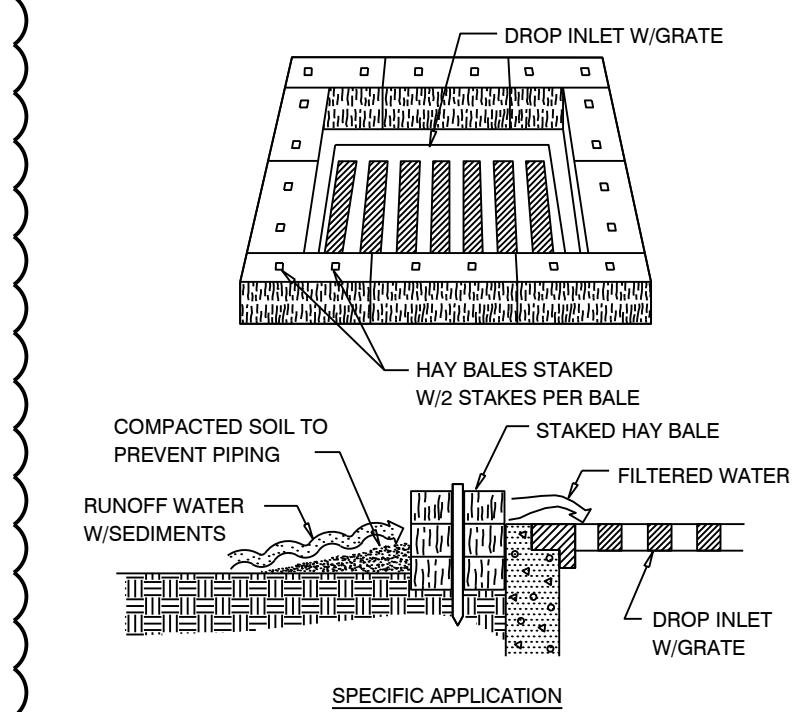
- GENERAL NOTES:
- STONE SIZE: 3 TO 5 INCH OPEN GRADED ROCK.
 - LENGTH- AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.
 - THICKNESS- NOT LESS THAN 8 INCHES.
 - WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - WASHING OF ALL VEHICLE UNDERCARRIAGE, WHEEL WELLS AND WHEELS IS MANDATORY TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED STRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE USING APPROVED METHODS.
 - MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
 - DRAINAGE- ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
 - PROVIDE WATER SUPPLY AND MINIMUM 100 FT. LONG HOSE AND SPIGOT AT EACH DESIGNATED CONSTRUCTION EXIT.
 - PROVIDE SIGNAGE AT EACH DESIGNATED EXIT REQUIRING WASHING OF ALL VEHICLES LEAVING SITE.

7 Gravel Construction Entrance
NTS



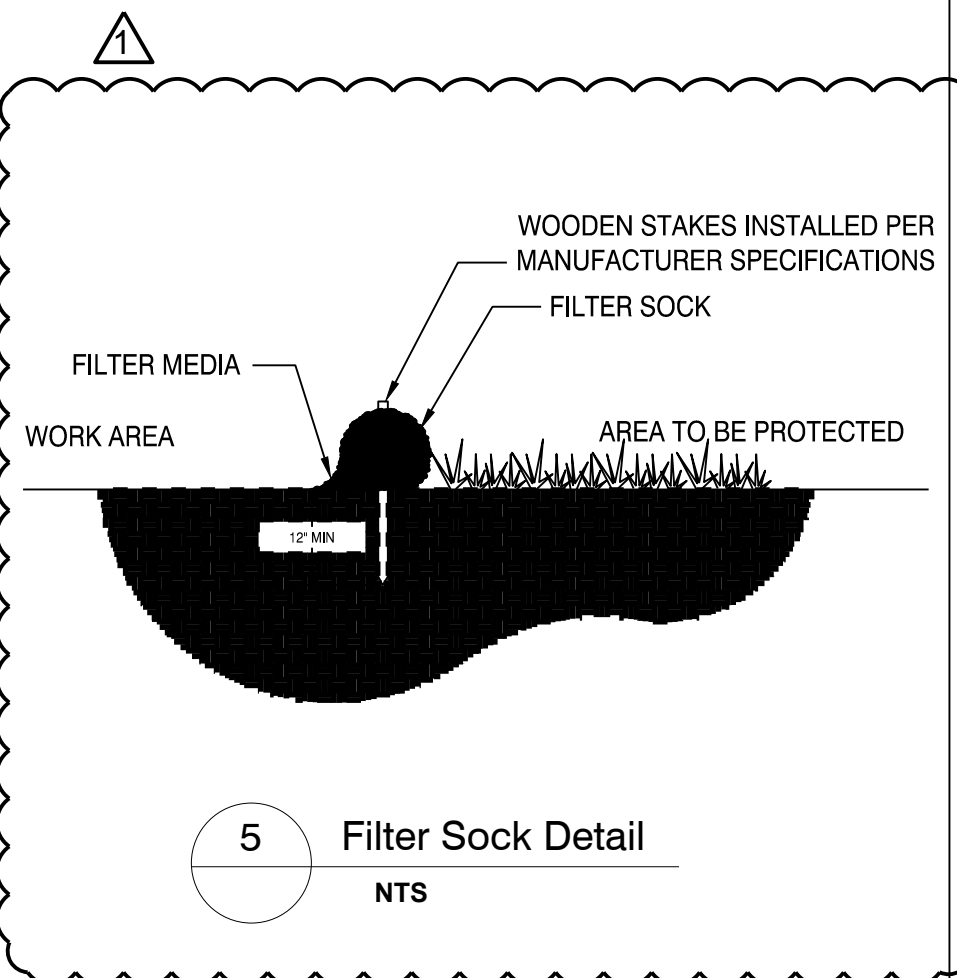
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT NON PAVED AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS.

1 Drop Inlet Sediment Filter
NTS



THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5%) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 CFS) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS ALONG ROADWAYS.

6 Hay Bale Drop Inlet Filter
NTS



5 Filter Sock Detail
NTS

ENVIRONMENTAL LAND USE CONTROLS NOTE:
PRIOR TO ANY AND ALL CONSTRUCTION ACTIVITIES, THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING IF LOCATION OF CONSTRUCTION ACTIVITIES ARE SUBJECT TO ENVIRONMENTAL LAND USE CONTROLS (LUC). ANY AND ALL ENCOUNTERED CONTAMINATED SOIL AND OR GROUNDWATER SHALL BE HANDLED PER THE "SOIL AND GROUND WATER MANAGEMENT PLAN", DATED FEBRUARY 13, 2015 INCLUDED IN THE PROJECT MANUAL. CONTRACTOR SHALL VERIFY THAT LUC CONSTRUCTION PERMIT HAS BEEN FILED AND APPROVED FOR THIS WORK.